First Nations Water Rights in British Columbia

A Historical Summary of the rights of the Shuswap First Nation

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WATER MANAGEMENT BRANCH

FIRST NATIONS WATER RIGHTS IN BRITISH COLUMBIA:

A Historical Summary of the rights of the Shuswap First Nation

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Gary Robinson
Project Manager
Water Management Branch

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FIRST NATIONS WATER RIGHTS REPORT

BAND:	Shuswap First Nation		
ADDRESS:	P.O. Box 790, Invermere, BC V0A 1K0		
CHIEF:	Paul I. Sam		
PHONE:	342-6361	**FAX:**	342-2948
AFFILIATION:	Ktunaxa/Kinbasket Tribal Council		

LOCATION:

The Shuswap Band occupy a 1,106.1 hectare reserve, Shuswap Reserve, located on the east bank of the Columbia River, opposite the Village of Invermere.

The most recent population figures compiled by the Ministry of Finance report that 138 persons live on the Shuswap reserve. Seventy-four (74) members are reported to live off of the reserve, giving the Band a total population of 212 registered persons.

Located in the Rocky Mountain Trench, the reserve lies at elevations in excess of 2, 600 metres. The regional climate consists of temperatures which range from an average low of -15 degrees centigrade in January to an average high, occurring in July, of 20 degrees centigrade. Average rainfall for the area totals between 50 and 100 cm, annually.

Water courses of significance include:

- Columbia River - drains to the north along the westerly boundary of the reserve.
- Shuswap Creek - originates in the Rocky Mountains and bisects the reserve as it flows west, draining into the Columbia River.
- Stoddart Creek - flows from the east adjacent to the northern boundary of the reserve, eventually draining into the Columbia River.

WATER ALLOCATIONS:

The water rights of the Shuswap Band have been determined by five actions of governments over the years:

1) Allotments by Indian Reserve Commissioners.

   Following confederation, the Province and the Dominion established an Indian Reserve Commission. The Commission reserved lands for the Indians and facilitated transfer of the proposed lands to Dominion authority. In setting apart reserves, the Reserve Commissioners made it their practice to allot water with the lands in question. This practice was unique among Indian Reserves in Canada and the authority of these Commissioners to allot water rights has always been disputed by the Province.

2) Lieutenant Governor-in-Council, approval by Orders-in-Council, granting water rights.

3) Determinations of the Board of Investigation under the *Water Act, 1914* in response to claims of the Department of Indian Affairs. In it's rulings the Board often ratified water records through the issue of water licenses.

4) The granting of water licenses in response to Federal Government applications requesting authorization for the use of water on reserves.

5) Actions to amend, cancel or record as abandoned licensed rights, pursuant to provisions in the *Water Act*..

HISTORY, CURRENT STATUS AND NOTES:

The history, current status, and notes for the water rights of the Shuswap Band with respect to the Columbia River, Shuswap Creek and Stoddart Creek are as follows:

Columbia River

History:

Jan 15, 1968 The Comptroller of Water Rights issued Conditional Water License 32872 to the Superintendent General of Indian Affairs. The license bears a precedence date of February 13, 1967, and authorizes the diversion of up to 137,000 gallons of water per day, year-round from the Columbia River for industrial purposes (beneficiation of gypsum) on Lot 1 of the Shuswap Reserve.

Current Status:

A July 11, 1989 memorandum from the Cranbrook Water Management office confirmed that the wash plant and works authorized under Conditional License 32872 had been constructed and were in use.

There is no further information on file with respect to the exercise of rights under this license.

Notes:

1. There are no additional notes with respect to the rights of the Shuswap Band on the Columbia River.

Shuswap Creek

History:

Aug 14, 1884 Records of a Minute of Decision (MOD) of the Indian Reserve Commission found in the *Report of the Royal Commission on Indian Affairs for the Province of B.C.* indicate the following allotment for the Shuswap Reserve:

> *"The water of Shuswap Creek (which flows through this Reserve) and 100 inches* of water from Aylmer** Creek are also allotted for use on this Reserve."*

* Note: The reference to an inch of water is understood to be a "miner's inch" of water. The Water Act of 1914 defined a miner's inch as being equal to a flow of .028 cubic feet per second. Calculating this rate of flow over a 120 day irrigation season converts to the equivalent 6.664 acre feet per miner's inch.

**Note: The reference to Aylmer Creek is unclear as Branch records do not attach this name to any major stream in the area.

Aug 13, 1896 The Lieutenant Governor-in-Council approved an Order authorizing the Government Agent for East Kootenay District to record the following with respect to the Shuswap Band on Shuswap Creek:

> *"100 inches* on Shuswap Creek from a point of diversion "near John Lambert's residence".*

*Note: see above notation regarding "miners inch".

Aug 26, 1921 At a final hearing of the Board of Investigation, acting pursuant to the *Water Act 1914*, the Board determined that a valid water record affecting the claim of the Department of Indian Affairs to rights to the use of the waters of Shuswap Creek was made under authority of an Act passed prior to the 12th day of March, 1909. The Order of the Board, numbered 1680, set out that a conditional license should be issued which would:

(i) provide for the diversion of water from Shuswap Creek;
(ii) take precedence from the 23rd day of September, 1896; and
(iii) authorize the diversion of a maximum of 670 acre feet of water per year for the irrigation of 268 acres of Shuswap Reserve. Of this amount, 15,000 gallons per day, year-round could also be used for domestic purposes.

Jan 25, 1924 The Comptroller of Water Rights issued Conditional Water License 7375, which embodied the terms and conditions set out in Board Order 1680.

Dec 14, 1926 The Comptroller of Water Rights issued Conditional Water License 8629 to the Superintendent General, Indian Affairs, with a date of precedence of February 11, 1925. The license authorizes the diversion of 500 acre feet per year (from April 1 to September 30) from Shuswap Creek for the irrigation of 200 acres of the Shuswap Reserve.

Jan 15, 1941 The Comptroller of Water Rights issued Final Water License 11227 (in substitution of Conditional Water Licenses 7375 and 8629) to the Director of Indian Affairs. Bearing a precedence date of February 11, 1925, the license authorizes the diversion of up to 1,000 acre feet per year (from April 1 to September 30) from Shuswap Creek for irrigation purposes. Of the 1000 acre feet allocated, 10,000 gallons per day, year-round, may be used for domestic purposes.

Current Status:

There are a total of 10 licenses active on Shuswap Creek. Of these licenses:

- 4 authorize the use of water for irrigation purposes, for a total of 637.5 acre feet per year, from April 1 to September 30.
- 2 authorize the use of water for combined domestic and irrigation purposes. A total of 11 000 gallons per day are allocated year-round for domestic use, and a total of 1,101.66 acre feet per year (from April 1 to September 30) are allocated for irrigation uses.
- 2 authorize the use of water for stockwatering and irrigation purposes. A total of 500 gallons per day are allocated year-round for stockwatering use, and 100 acre feet per year (from April 1 to September 30) are allocated for irrigation uses.
- 1 authorizes the use of water for the combined uses of stockwatering, domestic and irrigation: 2,000 gallons per day, year-round for stockwatering; 1 500 gallons per day, year-round for domestic use; and 400 acre feet per year (from April 1 to Sept. 30) for irrigation use.
- 1 authorizes the use of water for ponds, at 1 acre foot, year-round.

Final Water License 11227, third in priority, is the only active water license on Shuswap Creek for the use and benefit of the Shuswap Reserve.

There is not an active streamflow gauging station on Shuswap Creek. Water Survey of Canada records show that Station 08NA019 measured flows from May through September for two years, 1926 and 1927.

In 1977 the Fish and Wildlife Branch identified Shuswap Creek as supporting a moderate trout populations which were endangered by low water conditions. As a result, Conditional Water License 49956 was issued with a provision that the diversion of water may be restricted or prohibited at any time in order to maintain stream flows required for the preservation of the fish resource. Since the issuance of Conditional License 49956, four additional licenses (Conditional Water Licenses 49134, 67727, 67728 and 100318) have been issued. The four licenses do not include the fish-flow provision and the report leading to the issue of the latest license indicated that there was no history of regulation problems on Shuswap Creek. The report stated that total licensed demand was equivalent to 10.38 cubic feet/second, while the average mean low flow was estimated at 15 cubic feet/second.

A July 11, 1989 memorandum from the Cranbrook Water Management office reported that there was evidence of the intake structure and the remains of ditches authorized as works under Final Water License 11227. The memo concluded that there had been no use of water for irrigation purposes for a number of years. Domestic water use could not be determined. There is no further information on file with respect to the exercise of rights under this license.

Notes:

1. The Shuswap Band's prior right to water allotted by the Indian Reserve Commission has not been formally recognized by the Province. As the allocation relates to Shuswap Creek, it appears the Commission intended that the Shuswap Reserve would have the right to all of the water of the creek.

2. The allotment of water granted by license is less than the amount originally allotted by the Indian Reserve Commission; however, the licensed amounts appear to be consistent with the Order the Lieutenant Governor-in-Council approved Aug 13, 1896.

3. The issuance of Final Water License 11227 to the Shuswap Band (which substituted Conditional Water Licenses 7375 and 8629) resulted in the reduction of licensed water rights for domestic purposes and the increase of licenses water rights for irrigation purposes.

4. Under current licensing practices Final Water License 11227 would be issued for irrigation and waterworks purposes. The amendment of this license to include waterworks purpose could lead to designation of the Shuswap Creek drainage area as a Community Watershed under the Forest Practices Code.

5. The Shuswap Band's aboriginal right to fish may infer a right to flows in Shuswap Creek sufficient to sustain the fishery. The minimum fish-flow has not been secured, due to the absence of restrictive provisions in licenses issued since 1977, and/or the failure to formally reserve water under Section 44 of the *Water Act* .

6. There may be grounds for cancellation of all or part of the rights authorized under Final Water License 11227, pursuant to Section 20 of the *Water Act*. Demands on Shuswap Creek could cause pressure from third parties to pursue the cancellation of unused rights. The Province must move carefully on this issue to avoid any unreasonable extinguishment of what may be considered as aboriginal rights.

Stoddart Creek

History:

Aug 13, 1896 The Lieutenant Governor-in-Council approved an Order allowing the Government Agent for East Kootenay District to record the following with respect to the Shuswap Band on Lilac or Stoddart Creek:

"100 inches from a point of diversion 'on reserve'".*

* Note: The reference to an inch of water is understood to be a "miner's inch" of water. The Water Act of 1914 defined a miner's inch as being equal to a flow of .028 cubic feet per second. Calculating this rate of flow over a 120 day irrigation season converts to the equivalent 6.664 acre feet per miner's inch.

Aug 26, 1921 At a final hearing of the Board of Investigation, acting pursuant to the *Water Act 1914*, the Board determined that a valid water record affecting the claim of the Department of Indian Affairs to rights to the use of the waters of Stoddart Creek was made under authority of an Act passed prior to the 12th day of March, 1909. The Order of the Board, numbered 1668, set out that a conditional license should be issued which would:

(i) provide for the diversion of water from Stoddart Creek;
(ii) take precedence from the 23rd day of September, 1896; and
(iii) authorize the diversion of 670 acre feet of water per year for the irrigation of 268 acres of Shuswap Reserve. Of this, 2000 gallons per day, year-round could be used for domestic purpose.

Jan 25, 1924 The Comptroller of Water Rights issued Conditional Water License 7374, which embodied the terms set out in Order 1668.

Jan 15, 1935 The Comptroller of Water Rights issued Final Water License 9092 in substitution of Conditional Water License 7374. Final License 9092 authorized the diversion of 200 acre feet per year from Stoddart Creek for the irrigation of 130 acres of the northerly portion of Shuswap Reserve. Of this quantity 2,000 gallons per day, year-round was authorized for use for domestic purposes.

Dec 1, 1960 The Comptroller of Water Rights issued Conditional Water License 26101, authorizing the diversion of 25 acre feet per year (from April 1 to September 30) from Stoddart Creek for the irrigation of 10 acres of that part of Shuswap Reserve lying northeast of Highway No. 95. Of this, 2,000 gallons per day, year-round is available for domestic use.

Oct 1, 1973 The Comptroller of Water Rights issued Final Water License 41421, in substitution of Conditional Water License 26101, authorizing the diversion of 2,000 gallons per day, year-round from Stoddart Creek for industrial (resort) purposes.

Nov 29, 1979 The Comptroller of Water Rights approved the relocation of the intake authorized under Final License 9092 upstream, and the construction of new conveyance works, by issuing Conditional Water License 53094, in substitution. Conditional License 53094 authorizes the diversion of 200 acre feet per year (from April 1 to September 30) from Stoddart Creek for the irrigation of 130 acres of the Shuswap Reserve. Of this, 2,000 gallons per day, year-round is available for domestic use.

Current Status:

There are a total of 29 licenses on Stoddart Creek, two (2) of which are for the use and benefit of the Shuswap Band. Of the licenses:

- 20 authorize the use of water for domestic purposes, for a total of 13,000 gallons per day, year-round.
- 1 authorizes the use of water for incidental domestic and irrigation purposes; 2,000 gallons per day, year-round may be used for domestic use, while 200 acre feet per year (from April 1 to September 30) may be used for irrigation purposes.

- 1 authorizes the use of water for the combined uses of domestic and irrigation; 1,000 gallons per day, year-round may be used for domestic uses, while 1.5 acre feet per year (from April 1 to September 30) may be used for irrigation.
- 5 authorize the use of water for enterprise; total allocation equals 39,000 gallons per day, year-round.
- 2 authorize the use of water for irrigation purposes, for a total allocation of 17.94 acre feet per year (from April 1 to September 30).

The rights held by the Shuswap Band under Conditional Water License 53094 and Final Water License 41421 are first and sixth in priority, respectively, on Stoddart Creek.

Water Survey of Canada records show that Station 08NA020 has been operated at various times on Stoddart Creek. Measurements were recorded from May through September in 1938 and 1939, 1960 and 1961, 1971 and throughout the whole year from 1972 to 1982. These records indicate that a low mean monthly flow occurred on average in March, of 0.058 m^3/sec, increasing to a high in June, of 0.308 m^3/sec, and then decreased gradually in the summer, fall and winter seasons.

In April of 1980, making allowance for a minimum flow of 1.0 cubic foot/sec for fisheries, the Regional Water Manager recommended that Stoddart Creek be noted as "fully recorded except for small domestic applications". Since this recommendation, three licenses authorizing low volume domestic use have been granted on the stream.

A July 11, 1989 memorandums from the Cranbrook Water Management office stated:

(a) with respect to Conditional Water License 53094, there was about 20 acres of land under irrigation and domestic water use was unknown; and
(b) with respect to Final Water License 41421, the resort buildings had been abandoned for at least four years.

There is no further information on file with respect to the exercise of rights under these licenses.

Notes:

1. While the Shuswap Band enjoy "first water rights" on Stoddart Creek by virtue of Conditional License 53094, the extent of these rights is substantially less than those originally recognized by the Lieutenant Governor-in-Council in the August 13, 1896 Order, or by Conditional License 7374. However, the rights under Conditional License 7374 appear to be consistent with the Order of the Lieutenant Governor-in-Council approved August 13, 1896.

2. The rights granted under Conditional Water License 26101 were originally acquired by Alex Karps, as a lessee of that part of the Shuswap Reserve lying northeast of Highway No. 95. Mr. Karps subsequently developed a motel operation on the site, which led to the modification and reduction of rights and the issue/substitution of Final Water License 41421. There was no consideration of a transfer of the balance of the unused rights to of the Reserve.

3. The Shuswap Band's aboriginal right to fish may infer a right to a sufficient flow in Stoddart Creek to sustain the fishery. The minimum fish-flow has not been secured, due to the absence of restrictive provisions in licenses issued since 1977, and/or the failure to formally reserve water under Section 44 of the *Water Act* .

4. There may be grounds for cancellation of all or part of the rights under Conditional License 53094 or Final License 41421, pursuant to Section 20 of the *Water Act*. Demands on Stoddart Creek could cause pressure from third parties to pursue the cancellation of unused rights. The Province must move carefully on this issue to avoid any unreasonable extinguishment of what may be considered as aboriginal rights.

OTHER INFORMATION:

Groundwater Records:

A review of records maintained by the MELP - Groundwater Section found that there is some evidence of groundwater development on, and around, the Shuswap Reserve. Four wells have been reported on the reserve, all of which yield low volumes. The extent to which these wells are utilized at this time is unknown. Further details are appended to the report.

As the provision of well information to the Groundwater Section is voluntary, this review should not be assumed to be complete.

Municipal Water Sources:

The proximity of the Shuswap Reserve to the Village of Invermere, on the opposite bank of the Columbia River, presents the potential for water supply to the Reserve via a connection to the municipal water system. The Village of Invermere obtains' their water from Goldie Creek. Reports on water consumption in 1992 indicate that the Village experienced a peak daily demand in excess of 14 million gallons, well over their authorized maximum daily allowance, however their annual demand is well within licensed rights.

ATTACHMENT 1

Summary of Water Records

Shuswap

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
Columbia River	1967/02/13	Shuswap	273036	CL 32872	Current		137,000 GAD/Industrial (Gypsum Benefication)	
Shuswap Creek, Aylmer Creek	1884/08/14	Shuswap		MOD			*"the water of Shuswap Creek ... and 100 inches from Aylmer Creek "* (Conversion: 611 AF) (AGBC# 590472)	**Water allotments** from the *Indian Reserve Commission* not formally recognized by Province. **Aylmer Creek**: reference unclear - no major stream in area has present/historical association with this name.
Shuswap Creek	1896/08/13	Shuswap		OIC			*"100 inches ... from a point of diversion near John Lambert's residence"* . (Conversion: 611 AF) (AGBC# 590472)	**Water allotments** from the *Indian Reserve Commission* not formally recognized by Province.
Shuswap Creek	1896/09/23	Shuswap	1680	CL 7375	Superceded	FL 11227	15,000 GAD/Domestic, 670 AF/ Irrigation	CL 7375: **Embodied terms** and conditions articulated in *Board Order1680* .
Shuswap Creek	1925/02/11	Shuswap	59061	CL 8629	Superceded	FL 11227	500 AF/Irrigation	

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
Shuswap Creek	1925/02/11	Shuswap	241157	FL 11227	Current		10,000 GAD/Domestic 1,000 AF/Irrigation	FL 11227: **Issued in substitution** - CL 7375, CL 8629. **Substitution CL 7375** - Resulted in loss of precedential rights. **Priority 3** on Shuswap Creek.
Stoddart Creek, Lilac Creek	1896/08/13	Shuswap		OIC			*"100 inches from a point of diversion "on reserve" from Lilac or Stoddart Creek"* (Conversion: 611 AF) (AGBC# 590472)	**Water allotments** from the *Indian Reserve Commission* not formally recognized by Province.
Stoddart Creek	1896/09/23	Shuswap	1668	CL 7374	Superceded	FL 9092	2,000 GAD/Domestic, 670 AF/ Irrigation	CL 7374: **Embodied terms** and conditions articulated in *Board Order1668* .
Stoddart Creek	1896/09/23	Shuswap	21211	FL 9092	Superceded	CL 53094	2,000 GAD/Domestic, 200 AF/Irrigation	
Stoddart Creek	1896/09/23	Shuswap	241158	CL 53094	Current		2,000 GAD/Domestic, 200 AF/Irrigation	CL 53094: **Issued in substitution** - FL 9092; authorized relocation of intake and construction of new conveyance works. **Priority 1** - Stoddart Creek.
Stoddart Creek	1955/08/22	Shuswap	209098	CL 26101	Superceded	FL 41421	2,000 GAD/Domestic, 25 AF/Irrigation	

Water Source	Priority Date	Reserve Name	File No.	Document Type	Status	Superceded By	Licence PUC/MOD & OIC Allotments	Comments
Stoddart Creek	1955/08/22	Shuswap	209098	FL 41421	Current		2 000 GAD/Industrial (Resort)	FL 41421: **Priority 6** - Stoddart Creek. **July 1989 Memo**: Authorized use - Resort; buildings abandoned (at least 4 years). **April 1980**: Stoddart Creek - *"fully recorded "*.

LEGEND:

Licence Types (Document Types)
CL: Conditional Licence
FL: Final Licence

Mechanisms for Allocation (Document Type)
OIC: Order-in-Council (as issued by the Luitenant Governor in Council)
MOD: Minute of Decision (as recorded under the Indian Reserve Commission)
IRC: Indian Reserve Commission
AGBC: Attorney Generals Office of BC (followed by File #)

Allotment Units (Licence PUC/MOD & OIC Allotments)
GAD: Gallons a day
AF: Acre feet
CFS: Cubic feet per second

ATTACHMENT 2

WATER RIGHTS OF INDIANS IN B. C.

MINUTE and RESOLUTION of the 15th June, 1916:

"WHEREAS former Indian Reserves Commissioners, acting under joint Governmental Agreements, allotted defined Water Rights to certain Tribes or Bands of Indians in British Columbia;

"WHEREAS this Commission has been unable to obtain any advice from the law officers of the Crown in right of the Dominion of Canada as to the authority of the said former Commissioners to allot such Water Rights;

"AND WHEREAS this Commission desires that any right or title which Indians may have to such allotted Water Rights may not be adversely affected by inaction on its part,

"BE IT RESOLVED: That, to the extent to which the allotting Commissioners had authority to allot such Water Rights, this Commission, insofar as the power may lie in it so to do, CONFIRMS the said allotted Water Rights as set forth in the Schedule hereto appended:

SCHEDULE

Kootenay Agency

Upper Kootenay Tribe: Minute of Decision of July 18th, 1884, constituting Tobacco Plains Reserve No. 2: . . . "All water flowing through this Reserve is allotted to the use of the Indians."

Minute of Decision of August 9th, 1884, constituting Columbia Lake Reserve No. 3: . . . "All water flowing through this Reservation is assigned to the use of the Indians."

Shuswap Tribe, Kinbasket's Band: Minute of Decision of August 14th, 1884, constituting Shuswap Reserve: . . . "The water of Shuswap Creek (which flows through this Reserve) and 100 inches of water from Aylmer Creek are also allotted for use on this Reserve."

CERTIFIED CORRECT,
C. H. GIBBONS, *Secretary*.

On a Memorandum from the Honourable the Chief Commissioner of Lands and Works, dated 12th August 1896, enclosing a report from the Government Agent for East Kootenay District upon the application of Mr Indian Agent Galbraith for a grant of certain water rights under authority of Section 52 of the Land Act for the use and benefit of the StMary's, Tobacco Plains, Columbia Lakes and Shuswap Bands of Indians.

And recommending that the Government Agent be authorized to record the said water rights upon the conditions he advises.

The Committee advise approval

Thos R. Pooley

President of Executive Council

Approved 13th August, 1896.

Theodore Davie C.J.

Administrator

In the matter of an application for a water grant of one thousand nine hundred inches from various streams as detailed below for the term of perpetuity. Such water to be taken from its source and to be carried in ditches or flumes as detailed below and to be used by the respective Bands of Indians for irrigating purposes on their respective reserves.

Band of Indians	Source of water	Inches Water	Point of Diversion	Name of Person whose land will be affected by the ditches & flumes	Use
St Mary's	St Mary's River	400	One mile above Bridge		B
"	Cherry Creek	100	Near house of Peter Ogyle's ranch	Peter Ogyle	B
Tobacco Plains	H. Phillips	200	From lake below H. Phillips ranch and	Wm Gardner, H. Phillips, Colonel Nolan, Peter Ogyle and Mary Lake Co.	B
"	Reserve	200	On Reserve		B
"	Some	100	On Reserve		
Columbia Lake	Mosquito	100	Near boundary of White Egan's ranch	Walter Egan	B C
"	Finley	200	On Reserve		C
"	Sam	200	On Reserve		C
"	Sophy	200	On Reserve		
Shuswap	Shuswap	100	Near John Lambert's residence	John Lambert	B C
"	Lake or Pothole	100	On Reserve		B C

I would report that I have not examined the stream taken any evidence on oath but that from information from the Indian Agent and other persons I believe

1° The provisions of the Land Act relating to notice of application to divert and record water have been satisfied

2° Notices concerning those quantities of water marked B in the above table were published in the British Columbia Gazette for the sixty days commencing on the 30th day of April 1896 and in the Fort Steele Prospector for the same days commencing the 25th day of April 1896

3° Notices concerning those quantities of water marked C in the above table were published in the British Columbia Gazette for the 60 days commencing 20th June 1889, and also in the Victoria Weekly Times at about the same date. No newspaper was then published in the

4 The water applied for with the exception of part of that from St Mary River and all of that from Cherry Creek has been used by the respective land Indians for many years and ditches and flumes have been constructed but no grants have been received.

5 No damage is likely to accrue from the diversion of the land owners or other persons having water rights on the streams mentioned.

6 The volume of water in the streams mentioned is sufficient for the cultivable land in the vicinity

7 The quantity of water applied for is necessary and reasonable

I would further report that on the 8th day of June 1896 I sent by registered letter prepaid a copy of the notice mentioned in section 40 to Peter Ogden, William Phillips, Hall & Fegan and John Lambert and on the 31st day of July I sent a similar notice to the Columbia and Kootenay Railway and Navigation Company Vancouver a copy of which is hereto attached.

I would recommend that the water rights be granted on condition that the irrigation ditches or flumes be properly covered wherever they cross public roads

Dated at Donald B.C. 8th August 1896

J. F. Armstrong
Assistant Commissioner of
Lands and Works.
District of East Kootenay.

ATTACHMENT 3

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE.

(For an Irrigation Purpose.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act, 1914," duly held an investigation respecting the water set out in the order No. 1668, duplicate of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a conditional licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act, 1914," issue this conditional licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim to be such as are set out in the said order; and the terms and conditions of the said order and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof. This licence is appurtenant to the Shuswap Reserve of Kinbaskets band of Shuswap Indians.

10 dy F 7092

Made and entered this 25th day of January, 1924

E. A. Cleveland
Comptroller of Water Rights.

No. 7374

Form No. 1056, W.R.B. (Licence in respect of Board Order)—2,500-1-23—231.

Copy for Comptroller

PROVINCE OF BRITISH COLUMBIA. **WATER RIGHTS BRANCH.** DEPARTMENT OF LANDS.

DETERMINATION AND ORDER.

(FOR A CONDITIONAL WATER LICENCE FOR IRRIGATION PURPOSES.)

BY THE BOARD OF INVESTIGATION
UNDER THE "WATER ACT, 1914."

In the Matter of the Claims of the Department of Indian Affairs to Rights to the Use of the Waters of Stoddart Creek, a tributary of Columbia River, in the neighbourhood of Windermere, in the Windermere Water District.

NOW, on the 26th day of August, 1921, the above-entitled matter coming on regularly for final hearing before the Board of Investigation; due notice having been given of the time and place of hearing; all and every the steps required under the Act to be taken by the Board before a determination of the said rights and claims should be made having been taken; all evidence, testimony, and proofs filed with the Board or presented in the above-entitled matter having been duly considered; a quorum of the Board being present at the hearing; and the Board being now fully advised in the premises, determines with respect to the said claims (which are on file and designated as Indian File No. 21-21-1) that a valid water record affecting the said claim was made under authority of an Act passed prior to the 12th day of March, 1909, and that under the said water record the Shuswap tribe of Indians (Kinbasket's band) was granted a right to take and use water from Stoddart Creek, a tributary of Columbia River, for irrigation and domestic purposes on Shuswap Reserve of Kinbasket's band of Shuswap Indians.

7374

Form 188, W.R.B.—2,000-12-20. Order No. 1668.

2. The claims of the Department of Indian affairs with respect to the said waters are allowed by the Board to the extent hereinafter specified, and the Comptroller of Water Rights is hereby directed to issue a conditional licence in respect thereof embodying the following terms and conditions:—

(a.) The source of the water supply is Stoddart Creek, a tributary of Columbia River.

(b.) The point of diversion from the said source ~~is~~ is located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which exhibit is on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

(c.) The date ~~for~~ from which the said licence shall take precedence is 23rd September, 1896.

(d.) The purpose for which the water is to be used is irrigation.

(e.) The maximum quantity of water per annum which may be used when irrigation is extended to all the lands mentioned in subclause (g) of this clause, until lawfully altered, is 670 acre-feet, and the maximum quantity of water which may be used per annum on each acre actually irrigated until lawfully altered is 2½ acre-feet: Provided that where sources of supply other than those named in subclause (a) hereof are drawn upon for the irrigation of a part or all of the same lands as are described in subclause (g) hereof, the maximum quantity of water which may be used under the licence hereby directed to be issued shall be reduced by the quantity which the licensee may be entitled to use from said other sources of supply: Provided further that when the Engineer of the Water District has accumulated the requisite hydrographic data for determining to the satisfaction of the Comptroller the *pro rata* part of the said total quantity to be apportioned to the licence hereby directed to be issued, the Comptroller shall require the surrender of the licence, and shall amend the same by stating the particular quantity to which the licensee is entitled from the particular sources named therein.

(f.) The period of the year during which the water may be used is between the first day of April and the thirtieth day of September.

(g.) The water may be used on the northerly portion of Shuswap Reserve of Kinbasket's band of Shuswap Indians of which 268 acres are said to be irrigable. The extent and location of the said irrigable lands are more particularly shown in the said Exhibit "A."

(h.) The works which are required to be constructed before the issue of a final licence are the clearing, stumping, and levelling of the irrigable lands on the said reserve and the additional works required for conducting thereto the maximum quantity of water hereby authorized to be diverted.

(i.) The execution of the said works shall be commenced or resumed on or before the first day of June, 1924, and shall be prosecuted with due diligence and in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

(j.) The said works shall be completed and the quantity of water to which the licensee is entitled beneficially used for the purpose set out in the licence on or before the first day of November, 1930.

(k.) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

7374

Board Order No.1668.

Copy for Comptroller.

(*l.*) The nature and the extent of the incidental uses permitted under the licence are: For domestic purposes, the use of 2,000 gallons a day of water from any or all the said sources of supply during the whole of the year; and for storage purpose, such quantity of water (not exceeding [redacted] acre-feet) as, together with the natural flow-water used hereunder, will be necessary to secure to the licensee the quantity granted hereunder. The water which may be so stored shall be that of [redacted] and it may be stored (accumulated) in a reservoir at [redacted] between the first day of October in each year and the first day of June in the succeeding year, and may be used as provided for in subclauses (*d*), (*e*), and (*f*) of this clause, but such uses shall not enlarge the quantity of water allowed by subclause (*e*) hereof.

(*m.*) The Board may extend the time for the commencement, resumption, or completion of the execution of the works on being satisfied that it is in the public interest and that it will not injuriously affect the rights of any licensee.

(*n.*) The licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of the said Act, including the filing of proof of the completion of the said works and the putting of the water to such beneficial use within the time limited by the provisions of section 117 of the said Act.

3. Pending the issue of the licence hereby authorized to be issued, the terms and conditions of this order shall govern the respective rights of the record-holders or claimants affected thereby.

Made and entered this 25th day of January, 192[illegible]

THE BOARD OF INVESTIGATION.

By "J. T. Alexander", Chairman.

and "J. B. Lane", Member.

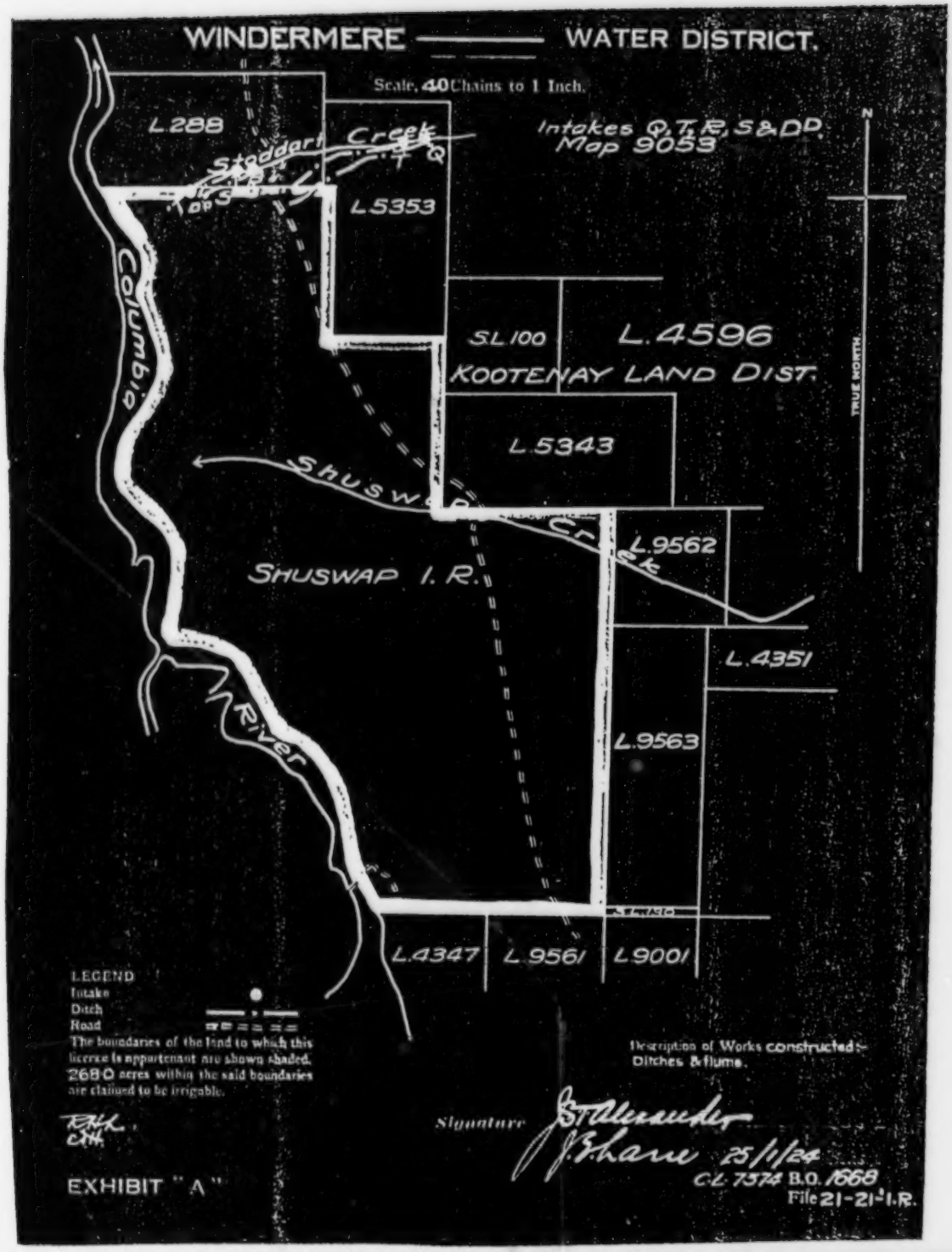
Member.

3053

7374

Form 381, W.R.B.—2,000-12-20. Order No. 1669.

Copy for Comptroller


WINDERMERE WATER DISTRICT.
Scale, 40 Chains to 1 Inch.
L 288
Stoddart Creek
Intakes P.T.R. S&DD. Map 9059
L 5353
Columbia
SL 100
L. 4596
KOOTENAY LAND DIST.
L 5343
Shuswap Cr
L 9562
Creek
SHUSWAP I. R.
L 4351
L 9563
River
L 4347
L 9561
L 9001
TRUE NORTH
LEGEND
Intake
Ditch
Road
The boundaries of the land to which this licence is appurtenant are shown shaded.
2680 acres within the said boundaries are claimed to be irrigable.
Description of Works constructed:-
Ditches & flume.
Signature
J. Alexander
J. Shaw 25/1/24
C.L. 7574 B.O. 1668
File 21-21-1 I.R.
EXHIBIT "A"

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE.

(For all Irrigation Purpose.)

WHEREAS the Board of Investigation, constituted and acting under the "Water Act, 1914," duly held an investigation respecting the water set out in the order No. 1680, duplicate of which is hereto attached, and in the said order directed the Comptroller of Water Rights to issue a conditional licence in respect of the particular record and claim respectively set out therein, and further therein named the terms and conditions to be embodied in the said licence:

NOW, THEREFORE, I, Comptroller of Water Rights of the Province of British Columbia, in pursuance of the said order and in conformity with the "Water Act, 1914," issue this conditional licence, and declare the rights in and to the use of the said waters held under the said record in respect of the said claim to be such as are set out in the said order; and the terms and conditions of the said order and any exhibits which are therewith incorporated are hereby incorporated herewith and form a part hereof. This licence is appurtenant to Shuswap Reserve of Kinbasket's Band of Shuswap Indians.

Superseded by Final Licence 11227

Made and entered this 25th day of January, 1924

E. A. Cleveland

Comptroller of Water Rights.

No. 7375

Form No. 1606, W.R.B. (Licence in respect of Board Order)—1,500-1-23—304.

Copy for Comptroller

PROVINCE OF BRITISH COLUMBIA. WATER RIGHTS BRANCH. DEPARTMENT OF LANDS.

DETERMINATION AND ORDER.

(FOR A CONDITIONAL WATER LICENCE FOR IRRIGATION PURPOSES.)

BY THE BOARD OF INVESTIGATION
UNDER THE "WATER ACT, 1914."

In the Matter of the Claims of the Department of Indian Affairs to Rights to the Use of the Waters

of Shuswap Creek, a tributary of Columbia River,

in the neighbourhood of Windermere, in the

Windermere Water District.

NOW, on the 26th day of August, 1921, the above-entitled matter coming on regularly for final hearing before the Board of Investigation; due notice having been given of the time and place of hearing; all and every the steps required under the Act to be taken by the Board before a determination of the said rights and claims should be made having been taken; all evidence, testimony, and proofs filed with the Board or presented in the above-entitled matter having been duly considered; a quorum of the Board being present at the hearing; and the Board being now fully advised in the premises, determines with respect to the said claims (which are on file and designated as Indian File No. 20-21-1) that a valid water record affecting the said claim was made under authority of an Act passed prior to the 12th day of March, 1909, and that under the said water record the Shuswap tribe of Indians (Kinbasket's band) was granted a right to take and use water from Shuswap Creek, a tributary of Columbia River, for irrigation and domestic purposes on the Shuswap Reserve of Kinbasket's band of Shuswap Indians.

7375

Form 388, W.R.B.—2,000-12-20. Order No. 1600.

Copy for Comptroller

2. The claims of the Department of Indian affairs with respect to the said waters are allowed by the Board to the extent hereinafter specified, and the Comptroller of Water Rights is hereby directed to issue a conditional licence in respect thereof embodying the following terms and conditions:—

(*a.*) The sources of the water supply is Shuswap Creek, a tributary of Columbia River.

(*b.*) The points of diversion from the said sources are located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which exhibit is on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

(*c.*) The date from which the said licence shall take precedence is 23rd September, 1896.

(*d.*) The purpose for which the water is to be used is irrigation.

(*e.*) The maximum quantity of water per annum which may be used when irrigation is extended to all the lands mentioned in subclause (*g*) of this clause, until lawfully altered, is 670 acre-feet, and the maximum quantity of water which may be used per annum on each acre actually irrigated until lawfully altered is 2 acre-feet: Provided that where sources of supply other than those named in subclause (*a*) hereof are drawn upon for the irrigation of a part or all of the same lands as are described in subclause (*g*) hereof, the maximum quantity of water which may be used under the licence hereby directed to be issued shall be reduced by the quantity which the licensee may be entitled to use from said other sources of supply: Provided further that when the Engineer of the Water District has accumulated the requisite hydrographic data for determining to the satisfaction of the Comptroller the *pro rata* part of the said total quantity to be apportioned to the licence hereby directed to be issued, the Comptroller shall require the surrender of the licence, and shall amend the same by stating the particular quantity to which the licensee is entitled from the particular sources named therein.

(*f.*) The period of the year during which the water may be used is between the first day of April and the thirtieth day of September.

(*g.*) The water may be used on Shuswap Reserve of Kinbasket's band of Shuswap Indians of which 268 acres are said to be irrigable. The extent and location of the said irrigable lands are more particularly shown in the said Exhibit "A."

(*h.*) The works which are required to be constructed before the issue of a final licence are the clearing, stumping, and levelling of the irrigable lands on the said reserve and the additional works required for conducting thereto the maximum quantity of water hereby authorized to be diverted.

(*i.*) The execution of the said works shall be commenced or resumed on or before the first day of June, 1924, and shall be prosecuted with due diligence and in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

(*j.*) The said works shall be completed and the quantity of water to which the licensee is entitled beneficially used for the purpose set out in the licence on or before the first day of November, 1930.

(*k.*) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

Board Order No.1680.

3375

Copy for Comptroller

(*l.*) The nature and the extent of the incidental uses permitted under the licence are: For domestic purposes, the use of 15,000 gallons a day of water from any or all the said sources of supply during the whole of the year; and for storage purpose, such quantity of water (not exceeding [redacted] acre-feet) as, together with the natural flow-water used hereunder, will be necessary to secure to the licensee the quantity granted hereunder. The water which may be so stored shall be that of [redacted] and it may be stored (accumulated) in a reservoir at [redacted] between the first day of October in each year and the first day of June in the succeeding year, and may be used as provided for in subclauses (*d*), (*e*), and (*f*) of this clause, but such uses shall not enlarge the quantity of water allowed by subclause (*e*) hereof.

(*m.*) The Board may extend the time for the commencement, resumption, or completion of the execution of the works on being satisfied that it is in the public interest and that it will not injuriously affect the rights of any licensee.

(*n.*) The licence shall not in any way be deemed to be a final licence for the use of water, but shall have the effect only of a conditional licence issued under Part V. of the "Water Act, 1914," and shall be subject to all the provisions of the said Act, including the filing of proof of the completion of the said works and the putting of the water to such beneficial use within the time limited by the provisions of section 117 of the said Act.

3. Pending the issue of the licence hereby authorized to be issued, the terms and conditions of this order shall govern the respective rights of the record-holders or claimants affected thereby.

Made and entered this 25th day of January, 1922.

THE BOARD OF INVESTIGATION.

By "J.S.T.Alexander", Member.

and "J.R.Lane", Member.

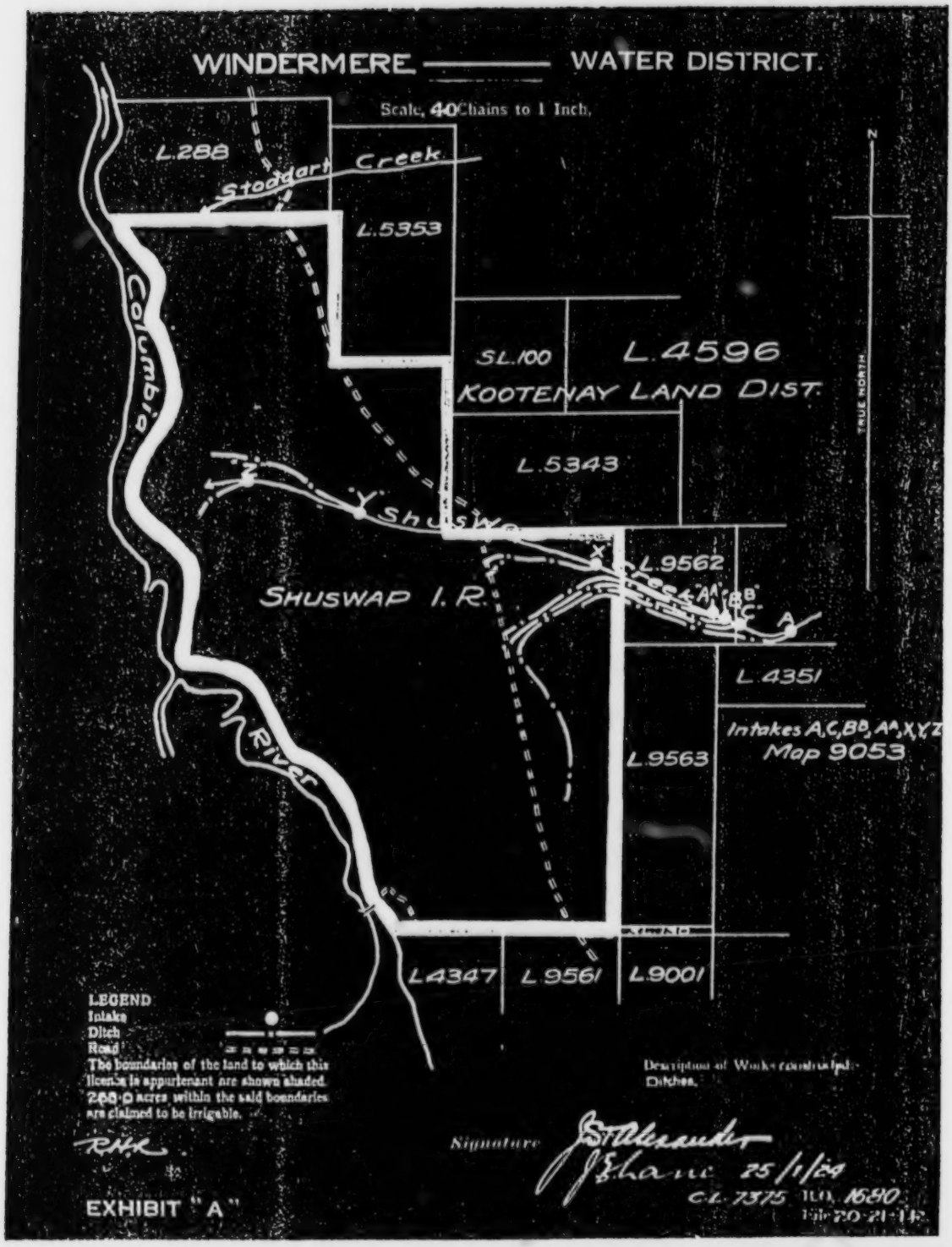
Map No. 3153

7375

Form 387, W.R.B.—2,000-12-20.

Order No. 1680.

Copy for Comptroller


WINDERMERE WATER DISTRICT.
Scale, 40 Chains to 1 Inch.
L.288
Stoddart Creek
L.5353
Columbia
SL.100
L.4596
KOOTENAY LAND DIST.
L.5343
Shuswap
L.9562
SHUSWAP I. R.
A
B
C
L.4351
Intakes A, C, B, AA, X, Y, Z
Map 9053
L.9563
River
L.4347
L.9561
L.9001
N
TRUE NORTH
LEGEND
Intake
Ditch
Road
The boundaries of the land to which this license is appurtenant are shown shaded.
288.0 acres within the said boundaries are claimed to be irrigable.
Description of Works constructed
Ditches.
Signature
J. Shane 25/1/24
C.L. 7375 L.D. 1690
File 20-21-14
EXHIBIT "A"

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

CONDITIONAL WATER LICENCE.

(IRRIGATION.)

Appurtenant to 200 acres of Shuswap Indian Reserve (Kinbasket Band).

WHEREAS SUPERINTENDENT GENERAL, INDIAN AFFAIRS, whose post-office address is Ottawa, Canada,

as owner or lawful occupant of the land hereinafter specified, has applied for a licence to take and use water in the manner hereinafter set out, and has taken all the preliminary steps required of such applicant under the "Water Act" prior to the issue of this licence, and is, under the said Act, entitled thereto:

Now, therefore, in pursuance of the said Act, this conditional licence is issued, granting the licensee hereunder the right to take and use water under the following terms and conditions:—

(1.) The source of the water-supply is Shuswap Creek, a tributary of Columbia River.

(2.) The point of diversion from the stream ~~is~~ are located as shown in the exhibit marked "A" hereto attached, which is incorporated herewith and made a part hereof, the original of which is attached to the counterfoil of this licence on file in the office of the Comptroller of Water Rights, Parliament Buildings, Victoria, B.C.

(3.) The date from which this licence shall take precedence is 11th February, 1925.

Superseded by Final Licence 11227

(4.) The purpose for which the water is to be used is irrigation ~~and incidentally domestic use~~.

(5.) The maximum quantity of water which may be diverted for use upon the lands mentioned in clause (7) hereof when all of the said lands are under irrigation is, until lawfully altered 500 acre-feet per annum, and such additional quantity as the District Engineer may from time to time determine should be allowed for seepage and evaporation; and the maximum quantity which may be used on any acre of the said lands in any year is 2.5 acre-feet: Provided that of the said - - - - acre-feet there may be used - - - - - - - - gallons of water a day throughout the whole year for domestic purpose.

(6.) The period of the year during which the water may be used is 1st April to 30th September.

(7.) The area and description of the lands upon which the water may be used are 200 acres, comprising part of Shuswap Indian Reserve (Kinbasket Band).

The extent and location of the said irrigable lands are further shown in the said exhibit "A."

Licence Number 8629

W.R.B. 1904 (1)—Conditional Licence—Irrigation—1M-626-6041

File No. 059061

ORIGINAL

(8.) The said lands shall be properly prepared for irrigation and irrigated beneficially from the said works on or before the 1st day of November, 1930.

(9.) Works for the diversion and the carriage of the water as set forth in the exhibit marked "B" which is hereto attached made a part hereof shall be constructed in a workmanlike manner and to the satisfaction of the Comptroller of Water Rights.

The said construction shall be commenced on or before the 1st day of May, 1927.

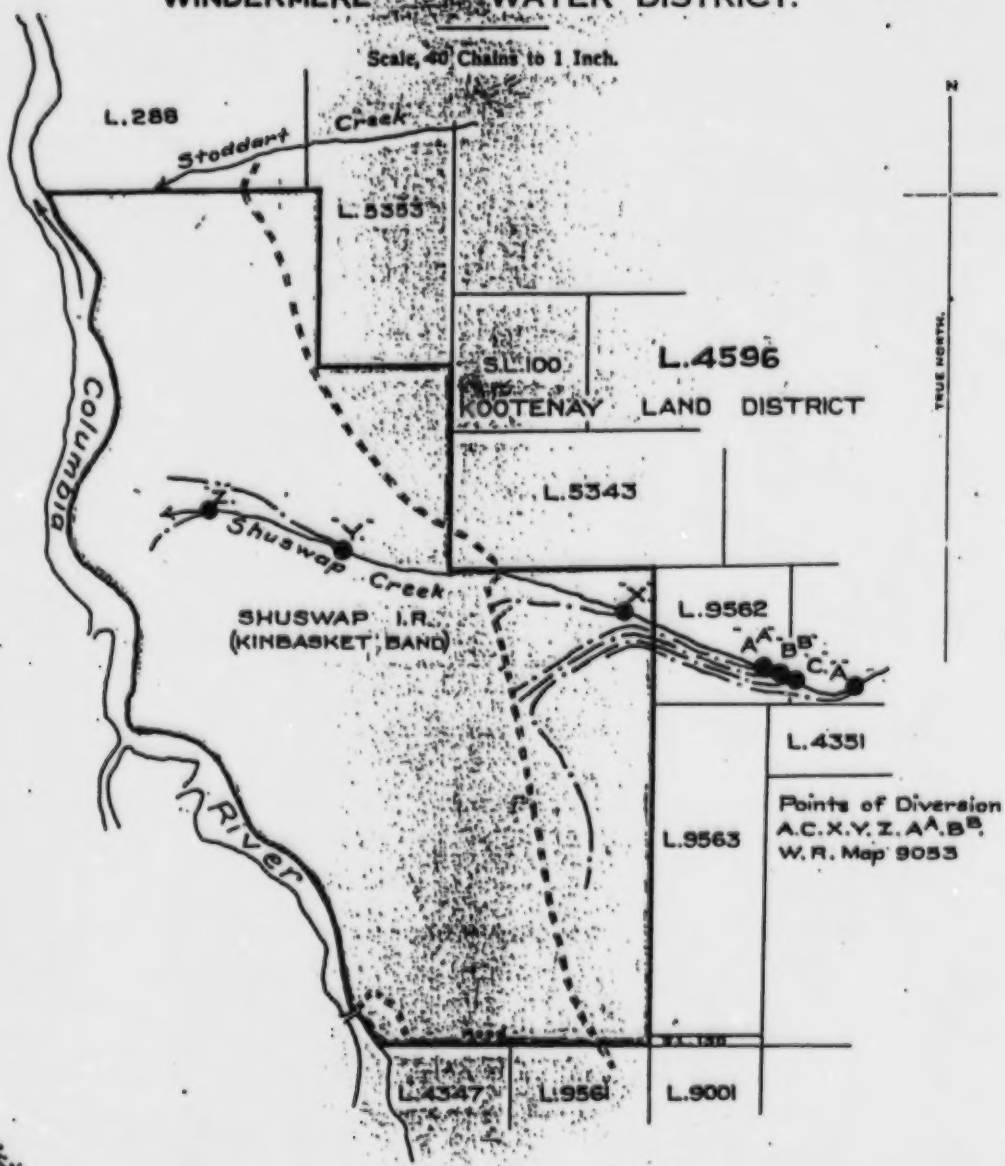
The said construction shall be prosecuted with due diligence and to the satisfaction of the Comptroller and shall be completed on or before the 1st day of November, 1930.

(10.) Before any change is made in the said works which would be a material deviation from the plans as approved or the works as accepted by the Comptroller, plans of such proposed change must be filed with the Comptroller and approved by him.

(11.) This licence is supplementary to - - - - - - - - Licence No. - - - - - for the diversion of - - - - - - acre-feet per annum from - - - - - - - - - - - - - - - and Licence No. - - - - - for the diversion of - - - - - - - acre-feet per annum from - - - - - - - - - - - - - - -

WINDERMERE WATER DISTRICT.

Scale, 40 Chains to 1 Inch.



The boundaries of the land to which this licence is appurtenant are shown shaded. 200. acres within the said boundaries are claimed to be irrigable.

Signature J. Macdonald.

Date. 14th Dec. 1926

C.L. 8623
File. 059061

EXHIBIT "A"

W.R.B. 15—6

PROVINCE OF BRITISH COLUMBIA

Water Rights Branch

DEPARTMENT OF LANDS AND FORESTS

CONDITIONAL WATER LICENCE

Alex Karps, of Radium, B. C.,

is/are hereby authorized to divert and use water as follows:—

(a) The source (s) of the water-supply is/are Stoddart Creek.

(b) The point (s) of diversion is/are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 22nd August, 1955.

(d) The purpose for which the water is to be used is irrigation and domestic.

(e) The maximum quantity of water which may be diverted for irrigation purpose is 25 acre feet per annum and for domestic purpose is 2000 gallons a day, and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used for irrigation purpose is 1st April to 30th September and for domestic purpose is the whole year.

(g) The land upon which the water is to be used and to which this licence is appurtenant is that part of Shuswap Indian Reserve, Kootenay District, lying northeast of Highway No. 95, of which 10 acres may be irrigated.

(h) The works authorized to be constructed are intake box and pipe,

and they shall be located approximately as shown on the attached plan.

(i) The construction of the said works has been commenced ~~shall be commenced before the~~ day of , 19~~6~~x , and shall be completed and the water beneficially used on or before the 31st day of December , 1961 .

(j) This licence authorizes the use of water in the buildings situated on the land described in clause (g) at the date hereof or any buildings replacing same but not in any other buildings.

(k) This licence is issued in substitution of Conditional Water Licence No. 22901, under application for change of appurtenancy.

ENTERED ON Plan No. ~~10054~~ 2963
R. M.

Superseded by Licence 41421.

A. T. Turnbull,
Comptroller of Water Rights.

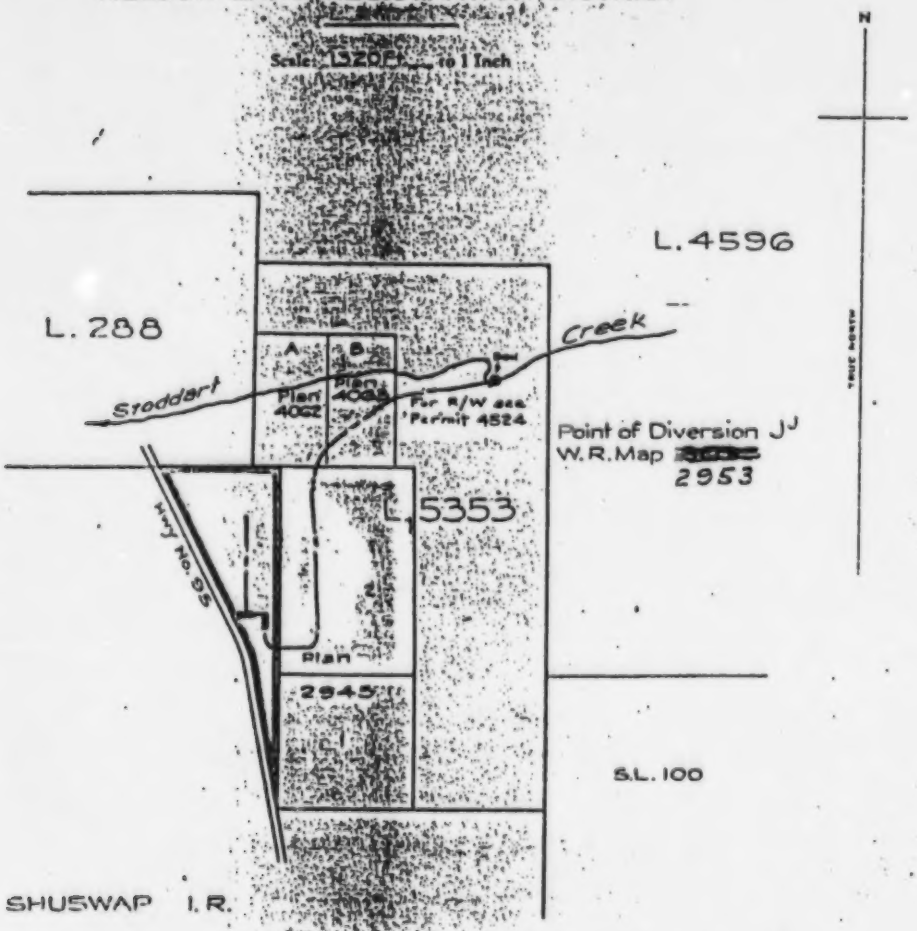
File No. 0209098 Date issued 1st December, 1960. Licence No. 26101

British Columbia

5/

WINDERMERE WATER DISTRICT
KOOTENAY LAND DISTRICT
NELSON LAND REGISTRATION DISTRICT

Scale: 1320 Ft. to 1 Inch



KOOTENAY LAND DISTRICT
NELSON LAND REGISTRATION DISTRICT

LEGEND

Point of Diversion ●

Pipe ——·——

The boundaries of the land to which this licence is appurtenant are shown thus: ——————

Signature

Date Dec. 1, 1960

CA126101 for CL 22901

File 0209098

EXHIBIT "A"

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

Superintendent General of Indian Affairs, OTTAWA, Ontario

is/are hereby authorized to divert and use water as follows:—

(a) The source(s) of the water-supply is/are Columbia River.

(b) The point(s) of diversion is/are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 13th February, 1967.

(d) The purpose for which the water is to be used is industrial (beneficiation of gypsum).

(e) The maximum quantity of water which may be diverted is 137,000 gallons a day, and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is the whole year.

(g) The land upon which the water is to be used and to which this licence is appurtenant is Lot 1 of Shuswap Indian Reserve, Kootenay District.

(h) The works authorized to be constructed are pump, pipe and washing plant, and they shall be located approximately as shown on the attached plan.

(i) The construction of the said works shall be commenced on or before the 31st day of July, 1968, and shall be completed and the water beneficially used on or before the 31st day of December, 1970.

H. D. DeBeck,
Comptroller of Water Rights.

File No. 0273036 Date issued: 15 January 1968 Conditional Licence No. 32872

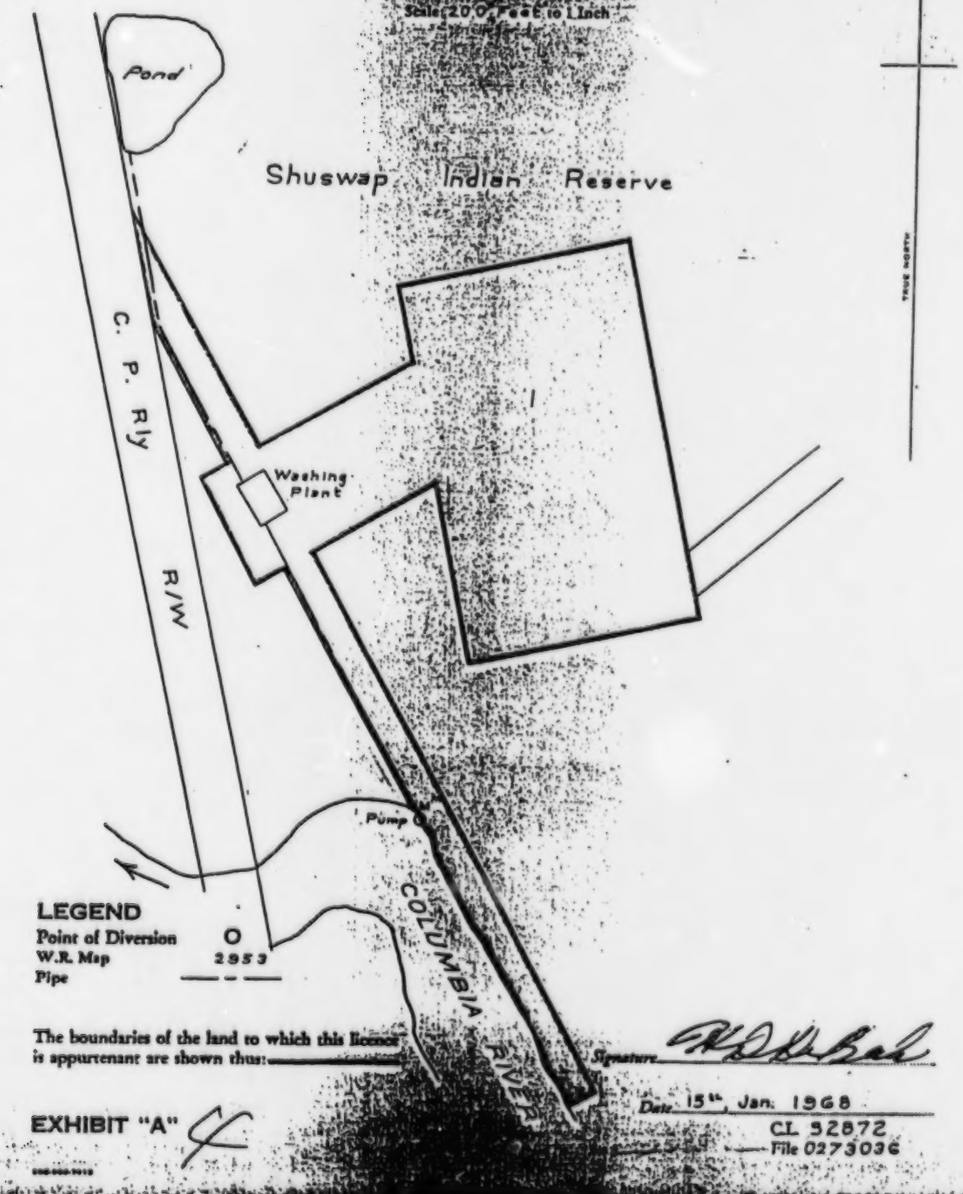
RECEIVED ON
APR 14 1968

British Columbia

GOLDEN WATER DISTRICT

KOOTENAY DISTRICT

Scale: 200 Feet to 1 Inch



LEGEND

Point of Diversion O

W.R. Map 2953

Pipe — — —

The boundaries of the land to which this licence is appurtenant are shown thus: _____

Signature A K Sutherland

Date 15th, Jan. 1968

EXHIBIT "A"

CL 32872

File 0273036

WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES

ORDER

WATER ACT

Section 15

File No. 0273036

The provisions of the B. C. Water Act having been complied with and being satisfied that no person's rights will be affected, I hereby extend the time for the completion of the works and for making beneficial use of the water authorized under Conditional Water Licence No. 32872 , Columbia River,

to the 31st day of December, 1972

A K Sutherland

A. K. Sutherland,
Deputy Comptroller of Water Rights.

DATED at Victoria, B. C.,

this 12th day of November, , 1971.

W.R.B. 42

WATER RIGHTS BRANCH

ENVIRONMENT

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

CONDITIONAL WATER LICENCE

The Honourable Minister of Indian and Northern Affairs of Ottawa, Ontario

is/are hereby authorized to divert and use water as follows:—

(a) The source(s) of the water-supply is/are Stoddart Creek.

(b) The point(s) of diversion is/are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 23rd September, 1896.

(d) The purpose for which the water is to be used is irrigation and domestic.

(e) The maximum quantity of water which may be diverted for irrigation purpose is 200 acre feet per annum, of which quantity 2,000 gallons a day may be used for domestic purpose and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used for irrigation purpose is 1st April to 30th September and for domestic purpose is the whole year.

(g) The land upon which the water is to be used and to which this licence is appurtenant is Shuswap Indian Reserve, Kootenay District, of which 130 acres may be irrigated.

(h) The works authorized to be constructed are diversion structure and pipe, which shall be located approximately as shown on the attached plan.

(i) The construction of the said works shall be commenced on or before the 29th day of May, 1980, and shall be completed and the water beneficially used on or before the 31st day of December, 1983.

(j) This licence is issued in substitution of Final Water Licence 9092 under Section 15 of the Water Act.

J. E. Farrell,
Deputy *Comptroller of Water Rights.*

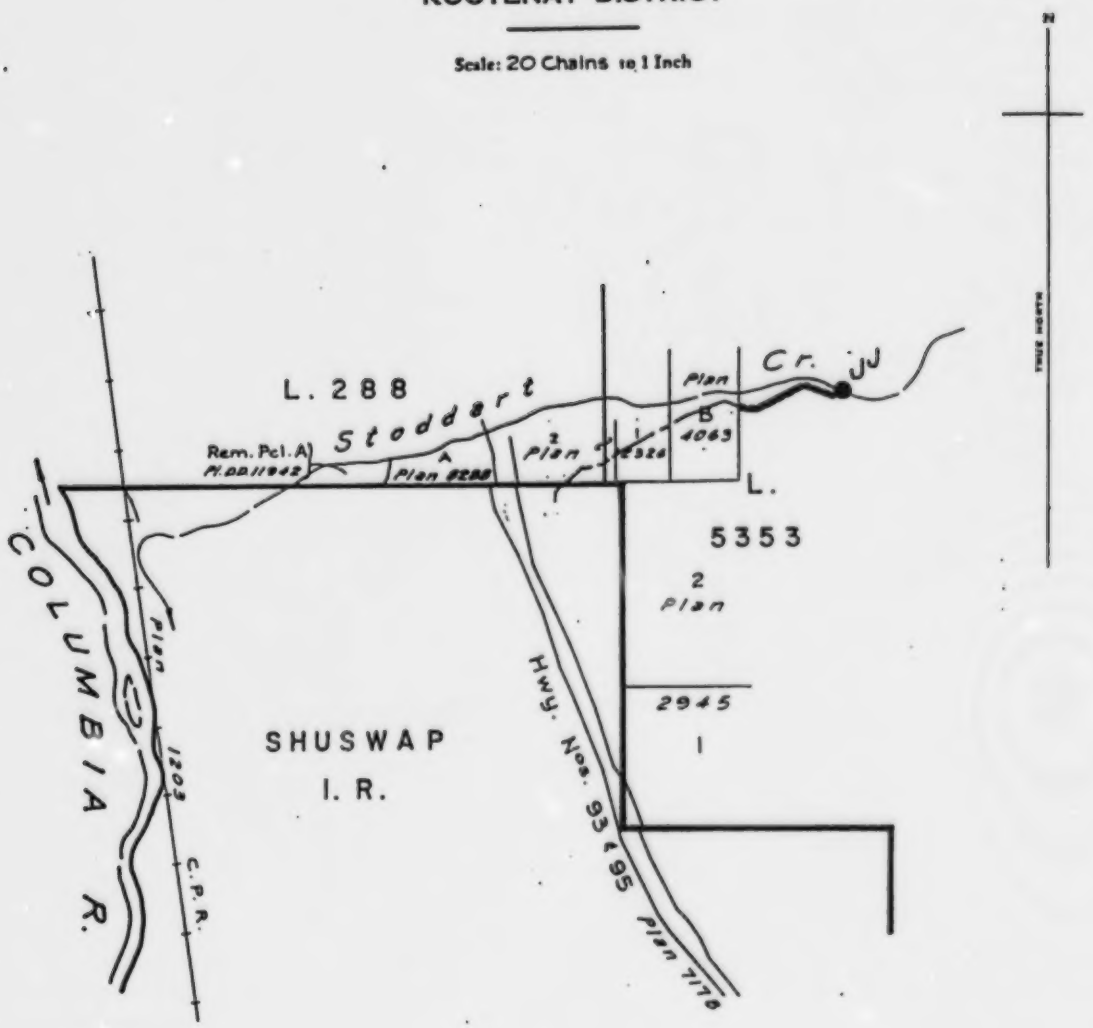
File No. 0241158 Date issued: 29th November, 1979 Conditional Licence No. 53094

ENTERED ON
Map No. 2953
By DPB

British Columbia

GOLDEN WATER DISTRICT
KOOTENAY DISTRICT

Scale: 20 Chains to 1 Inch



LEGEND

Point of Diversion	●
W.R. Map	2953
Pipe	— · —
Right of Way	▬▬

The boundaries of the land to which this licence is appurtenant are shown thus: ▬▬

Signature [signature]

Date 29th Nov. 1979

C.L. 53094 for F.L. 9092

File 0241158

R/W Permit No. 12191

Windermere Precinct

1919/11/29

PROVINCE OF BRITISH COLUMBIA.

WATER RIGHTS BRANCH.

DEPARTMENT OF LANDS.

FINAL WATER LICENCE.

The Superintendent-General of Indian Affairs of Ottawa, Canada, is hereby authorized to divert and use water as follows:—

(a.) The source of the water-supply is Stoddart creek,

a tributary of Columbia river.

(b.) The point of diversion from the stream is located as shown in the Exhibit marked "A" hereto attached.

(c.) The date from which this licence shall have precedence is 23rd September, 1896.

(d.) The purpose for which the water is to be used is Irrigation and Domestic.

(e.) The maximum quantity of water which may be diverted from the stream is 200 acre-feet per annum of which quantity 2,000 gallons a day may be used for Domestic use.

(f.) The period of the year during which the water may be used is for Irrigation is 1st of April to 30th September and for Domestic use throughout the year.

(g.) The land upon which the water may be used is 130 acres of the Northerly portion of Shuswap Indian Reserve,

as shown in the said Exhibit "A."

(h.) The works for the diversion and the carriage of the water consist of flumes and ditches.

(i.) This licence is issued in substitution of Conditional Water Licence No. 7374.

Issued this 15th day of January, 1923.

J. Macdonell

Comptroller of Water Rights.

2023 ~~1923~~ 1919

SUPERCEDED BY LICENCE NO. C 53094

File No. 21-21-1.

Licence No. 9092

W.R.B. 2—1M-434-7924

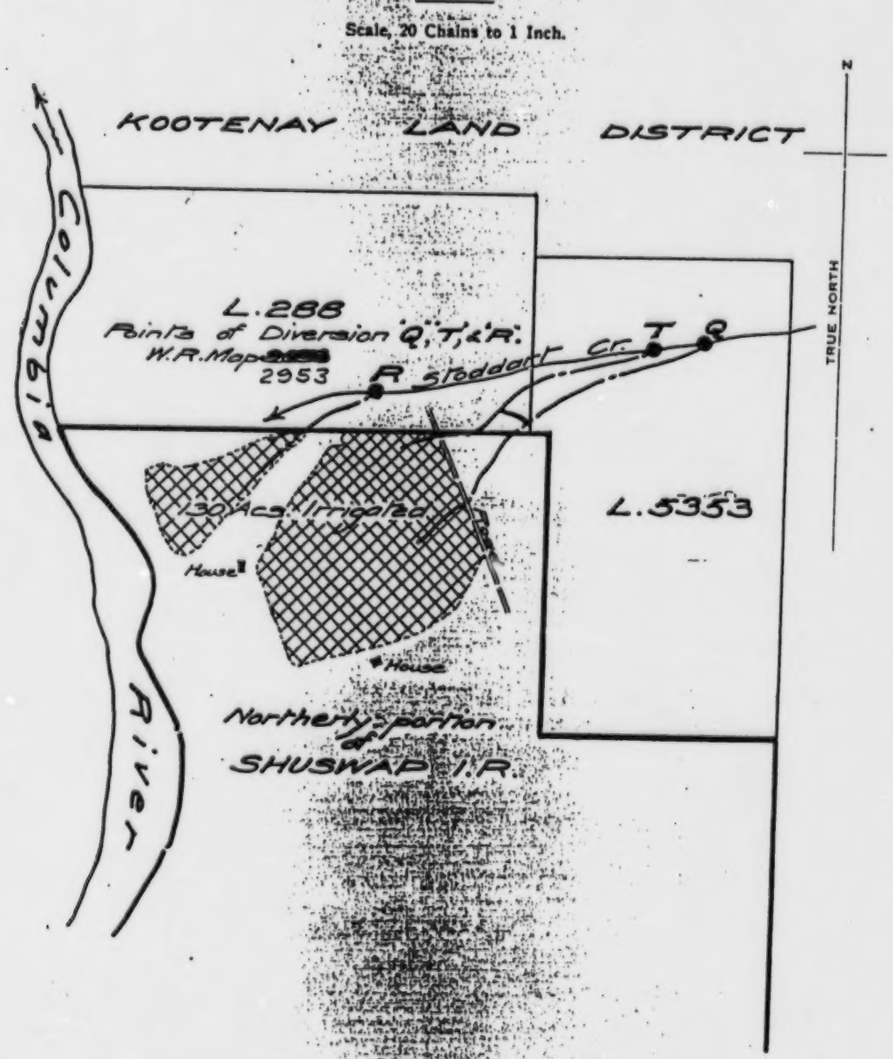
8/

British Columbia.

To accompany Final Licence No. 5092

WINDERMERE WATER DISTRICT.

Scale, 20 Chains to 1 Inch.



The boundaries of the land to which this licence is appurtenant are shown shaded.

EXHIBIT "A"

Signature J. Macdonald

Date 15th Jan. 1935

W.R. 9092 for C.L. 7374

File 21-21-1

W.R.D. 2— 1-6257

PROVINCE OF BRITISH COLUMBIA — WATER RIGHTS BRANCH — DEPARTMENT OF LANDS

FINAL WATER LICENCE.

Director

1. The Superintendent-General of Indian Affairs of Ottawa, Canada, is hereby authorized to divert and use water as follows:—

(a.) The source of the water-supply is Shuswap Creek

a tributary of Columbia River.

(b.) The point of diversion from the stream is located as shown in the Exhibit marked "A" hereto attached.

(c.) The date from which this licence shall have precedence is 11th February, 1925.

(d.) The purpose for which the water is to be used is irrigation and domestic.

(e.) The maximum quantity of water which may be diverted from the stream is 1,000 acre feet per annum, of which quantity 10,000 gallons a day may be used for domestic purpose.

(f.) The period of the year during which the water may be used is for irrigation purpose is 1st April to 30th September and for domestic purpose is the whole year.

(g.) The land upon which the water may be used is 523 acres of South-east portion of Shuswap Indian Reserve (Kinbasket Band)

as shown in the said Exhibit "A"

(h.) The works for the diversion and the carriage of the water consists of pipe, flume, and ditch.

(i.) This licence is issued in substitution of Conditional Water Licence Nos. 7375 and 8629.

ENTERED ON 2953
Map No. [illegible]
By [illegible]

APPROVED
E. Davis
Comptroller of Water Rights.

File No. 20-21-1 Date issued January 15, 1941. Licence No. 11227

10

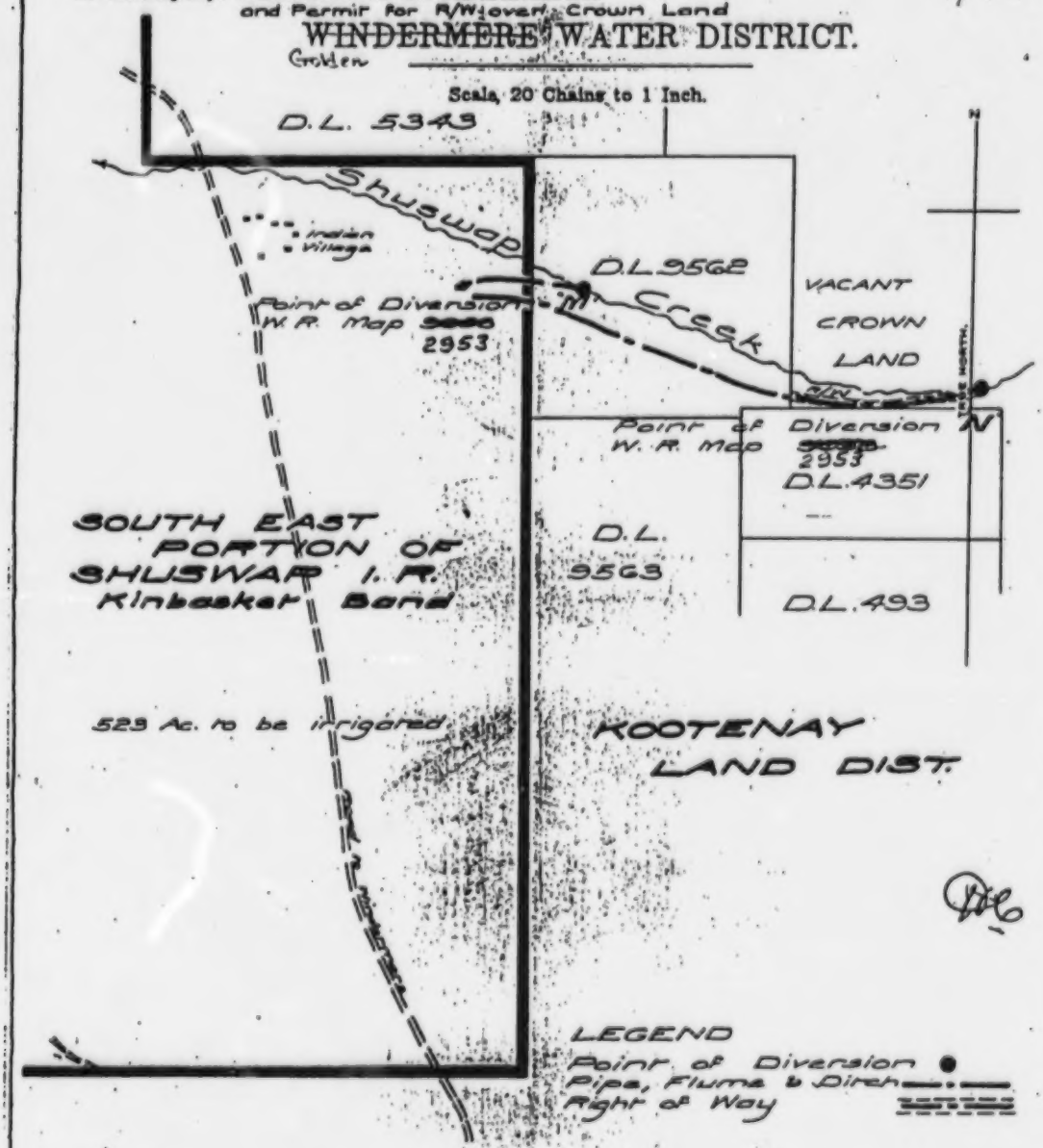
British Columbia.

To accompany. Final Licence No. 11827
and Permit for R/W over Crown Land

WINDERMERE WATER DISTRICT.

Golden

Scale, 20 Chains to 1 Inch.



The boundaries of the land to which this Licence is appurtenant are shown thus: ———

Signature E. Davis

Date 15th Jan, 1941

EXHIBIT "A"

FOR WATER ACT

F.L. 11827 for Cl. 7975 & 8028

Recorded in File 82-817

WATER RESOURCES SERVICE
WATER RIGHTS BRANCH

DEPARTMENT OF LANDS, FORESTS, AND WATER RESOURCES

THE PROVINCE OF BRITISH COLUMBIA—WATER ACT

FINAL WATER LICENCE

The Honourable the Minister of Indian and Northern Affairs (Kootenay - Okanagan Agency) of Ottawa, Ontario

is/are hereby authorized to divert and use water as follows:—

(a) The source(s) of the water-supply is/are Stoddart Creek.

(b) The point(s) of diversion is/are located as shown on the attached plan.

(c) The date from which this licence shall have precedence is 22nd August, 1955.

(d) The purpose for which the water is to be used is industrial (resort).

(e) The maximum quantity of water which may be diverted is 2,000 gallons a day,

and such additional quantity as the Engineer may from time to time determine should be allowed for losses.

(f) The period of the year during which the water may be used is the whole year.

(g) The land upon which the water is to be used and to which this licence is appurtenant is that part of Shuswap Indian Reserve, Kootenay District, lying northeast of Highway 93 and 95 (Plan 7178).

(h) The works authorized hereunder are diversion structure and pipe,

located as shown on the attached plan.

(i) This licence is issued in substitution of Conditional Water Licence No. 26101.

H.D. DeBeck
Comptroller of Water Rights.

File No. 0209098 Date issued: 1 October 1973 Final Licence No. 41421

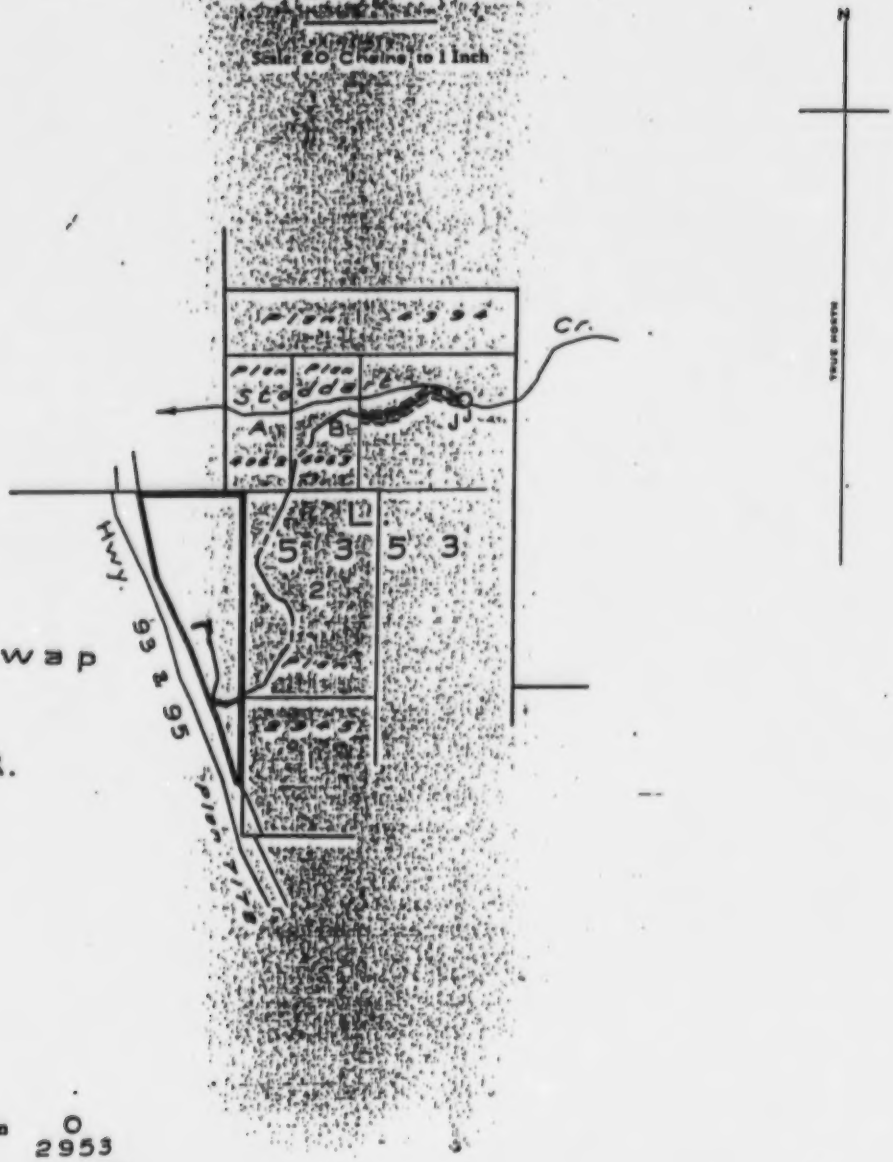
ENTERED ON
Map No. 2953
By GHR RL

British Columbia

GOLDEN WATER DISTRICT

KOOTENAY DISTRICT

Scale: 20 Chains to 1 Inch



LEGEND

Point of Diversion	O
W.R. Map	2953
Pipe	
Right of Way	

The boundaries of the land to which this licence is appurtenant are shown thus:

Signature

Date 1st Oct. 1975.

EXHIBIT "A"

F.L. 41421 for C.L. 26101

File 0209098

R/W Permit N°. 9206

Windermere Precinct

ATTACHMENT 4

Stream Register Report Water Licence Information System

Report Requested By : GROBINSON
Date Report Requested : 1994/12/13 13:26
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : P024571 - 2953 E3
END POINT : S07168 - Shuswap Creek right of Columbia River

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Stat
Source			MR Map	POD RED POD Comments					Prec	
1892/02/06	C047666	0242308	75 AC OF L 493 & 4351 KOOTENAY DIST	PANORAMA ACRES LTD BOX 880 INVERMERE BC V0A1K0	IRR	150.00 AF	Apr 01	Sep 30		
Shuswap Creek			WR2953	E3 N					10H GOL - WINDERMERE	
1893/08/29	C047279	0242309	40.64 AC OF L 9562 KOOTENAY DIST	HALVERSON RICHARD G & SUSAN E BOX 313 RADIUM HOT SPRINGS BC V0A1M0	DOM IRR	1,000.00 GD 101.66 AF	Jan 01 Apr 01	Dec 31 Sep 30		
Shuswap Creek			WR2953	EE N					10H GOL - WINDERMERE	
1925/02/11	F011227	0241157	523 AC OF SE PART SHUSWAP IR (KINBASKET) KOOTENAY DIST	SHUSWAP INDIAN BAND 981-605-7428 PO BOX 790 INVERMERE BC V0A1K0	DOM IRR	10,000.00 GD 1,000.00 AF	Jan 01 Apr 01	Dec 31 Sep 30		
Shuswap Creek			WR2953	N N					10H GOL - WINDERMERE	
Shuswap Creek			WR2953	M N						
1971/08/10	C049956	0305834	35 AC OF L 9562 KOOTENAY DIST	HALVERSON RICHARD G & SUSAN E BOX 313 RADIUM HOT SPRINGS BC V0A1M0	IRR	87.50 AF	Apr 01	Sep 30		
Shuswap Creek			WR2953	EE N					10H GOL - WINDERMERE	
1972/05/15	C049134	0310092	150 AC OF L 4351,493,9000 KOOTENAY DIST	PANORAMA ACRES LTD BOX 880 INVERMERE BC V0A1K0	IRR	375.00 AF	Apr 01	Sep 30		
Shuswap Creek			WR2953	E3 N					10H GOL - WINDERMERE	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Stat
	Source		MR Map	POD RED POD Comments					Prec	
1986/04/14	C067727	4001081	L 4 OF DL 4596 KOOTENAY DIST PLAN 14481	CHASSE JACQUES J & SHELLY R BOX 1025 INVERMERE BC V0A1K0	SW IRR	250.00 GD 50.00 AF	Jan 01 Apr 01	Dec 31 Sep 30	STOCK WATERING	AMD UNDER AP
	Shuswap Creek		MR2953	EE N					10N COL - WINDERMERE	
1986/04/14	C067728	4001082	L 5 OF DL 4596 KOOTENAY DIST PLAN 14481	RUAULT GARY A & COREEN G BOX 2703 INVERMERE BC V0A1K0	SW IRR	250.00 GD 50.00 AF	Jan 01 Apr 01	Dec 31 Sep 30	STOCK WATERING	AMD UNDER AP
	Shuswap Creek		MR2953	EE N					10N COL - WINDERMERE	
1989/05/23	C100318	4001763	THAT PART OF L A LYING WITHIN L 16940 KOOTENAY DIST PLAN 18678	HALVERSON RICHARD G & SUSAN E BOX 313 RADIUM HOT SPRINGS BC V0A1M0	IRR	25.00 AF	Apr 01	Sep 30		
	Shuswap Creek		MR2953	EE N					10N COL - WINDERMERE	
1989/11/16	C100316	4001898	BLK A DL 9563 BLK A DL 9500 BLK A DL 9001 DL 7567 EXCEPT 1) PCL B (REF PLAN 107666I) 2) REF PLAN 104991I 3) PLANS 2662 2822 10293 10999 4) PT LYING EAST OF PLAN 13914 ALL OF KOOTENAY DIST	PANORAMA ACRES LTD BOX 880 INVERMERE BC V0A1K0	DOM SW IRR	1,500.00 GD 2,000.00 GD 400.00 AF	Jan 01 Jan 01 Apr 01	Dec 31 Dec 31 Sep 30		
	Shuswap Creek		MR2953	E3 N					10N COL - WINDERMERE	
1993/04/22	Z106518	4002760	LA DL9562 KOOTENAY DIST PLAN18678	HALVERSON RICHARD G & SUSAN E BOX 313 RADIUM HOT SPRINGS BC V0A1M0	PONDS	1.00 AF	Jan 01	Dec 31		APP APPLIC-C
	Shuswap Creek		MR2953	P3 N					10N COL - WINDERMERE	

---------- Total of 10 Licences Reported ----------

Stream Register Report Water Licence Information System

Report Requested By : GROBINSON
Date Report Requested : 1994/12/14 10:37
Report Sorted By : Source Gazetted - Priority Date - Licence Number
Selection Criteria
START POINT : PD61144 - 2953 MB
END POINT : SO7172 - Stoddart Creek right of Columbia River

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	POC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
	Source		WR Map	POD RED POD Comments					Prec	
1896/09/23	C053094	0241158	130 AC SHUSWAP IR KOOTENAY DIST	SHUSWAP INDIAN BAND 981-605-7428 PO BOX 790 INVERMERE BC V0A1K0	DOMIN IRR	2,000.00 GD 200.00 AF	Jan 01 Apr 01	Dec 31 Sep 30		
	Stoddart Creek		WR2953	JJ N					10H COL - WINDERMERE	
1908/11/05	C041813	0242313	L 1 OF L 288 KOOTENAY DIST PLAN 8007	BUKOVNIK LEO SENIOR GD ATHALMERE BC V0A1A0	DOM	500.00 GD	Apr 01	Sep 30		
	Stoddart Creek		WR2953	ZZ N					10H COL - WINDERMERE	
1908/11/05	C041815	0316507	L D OF L 288 KOOTENAY DIST PLAN 8210	DEHART DON & GLORIA PO BOX 267 RADIUM HOT SPRINGS BC V0A1M0	DOM	500.00 GD	Jan 01	Dec 31		A/A APPORTIONMEN
	Stoddart Creek		WR2953	ZZ N					10H COL - WINDERMERE	
1908/11/05	C041820	0316510	PARCEL A OF L 288 KOOTENAY DIST (DD 11942) EXC PLAN 8288 & 8007	SPOCCHI RENE P & PATSY G PO BOX 3 RADIUM BC V0A1M0	DOM	500.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	AJ N					10H COL - WINDERMERE	
1908/11/05	C041825	0309880	L A OF L 288 KOOTENAY DIST PLAN 8288	583273 ALBERTA LTD RR 1 HANHAM AB T0H3P0	DOM	500.00 GD	Apr 01	Sep 30		
	Stoddart Creek		WR2953	YY N					10H COL - WINDERMERE	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
	Source		WR Map	POD RED POD Comments					Prec	
1955/08/22	P041421	0209098	PART OF SHUSWAP IR KOOTENAY DIST LYING NE OF HWY 95 & 93 (PLAN 7178)	SHUSWAP INDIAN BAND 981-605-7428 PO BOX 790 INVERMERE BC V0A1K0	ENTPR	2,000.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	JJ N					10H GOL - WINDERMERE	
1956/08/23	C069725	0213209	LOT A DISTRICT LOT 5353 KOOTENAY DIST RICT PLAN 4062 EXCEPT PART INCLUDED IN PLAN 12326	BOUX GEORGINA 59 KIRKHAM DR BRANDON MB R7A2N9	DOM	500.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	HH N					10H GOL - WINDERMERE	
1958/08/05	P041943	0221557	L 2 OF L 5353 KOOTENAY DIST PLAN 2945	KARPS WILLIAM BOX 246 RADIUM BC V0A1M0	DOM	2,000.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	JJ N					10H GOL - WINDERMERE	
1958/09/08	C024933	0221968	L B OF L 5353 KOOTENAY DIST PLAN 4063	HOSHOWSKY HARRY 3281 REGENT AVE NORTH VANCOUVER BC V7N2H6	DOM	500.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	JJ N					10H GOL - WINDERMERE	
1966/11/04	C060880	0370406	0.19 AC OF L 9199 KOOTENAY DIST PLAN 8413	MACKEY CHARLES R & SHIRLEY E BOX 92 INVERMERE BC V0A1K0	IRR	0.44 AF	Apr 01	Sep 30		
	Stoddart Creek		WR2953	SS N					10H GOL - WINDERMERE	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
	Source		WR Map	POD RED POD Comments					Prec	
1966/11/04	C060881	0270591	0.64 AC OF L 1 OF PLAN 5987 & L 1 OF PLAN 4753 of L 9248 KOOTENAY DIST	MACKEY CHARLES R & SHIRLEY E BOX 92 INVERMERE BC V0A1K0	DOM IRR	1,000.00 GD 1.50 AF	Jan 01 Apr 01	Dec 31 Sep 30		
	Stoddart Creek		WR2953	SS N					10H GOL - WINDERMERE	
1968/10/02	C041974	0281808	PART OF BLK A PLAN 2660 & PART OF L 7913 KOOTENAY DIST (DD 142971I) BOTH LYING E OF HWY 95 (PLAN R197 & 6921)	408010 BC LTD BOX 412 RADIUM HOT SPRINGS BC V0A1M0	ENTPR	12,000.00 GD	Jan 01	Dec 31		C/P CANCELLAT
	Stoddart Creek		WR2953	SS N					10H GOL - WINDERMERE	
1968/10/02	C048715	0317556	L 2 & 6 OF BLK 1 OF L 1 OF BLK 2 PLAN 4194 & PART OF BLK A PLAN 2660 LYING W OF HWY 95(PLAN R197, 6921) EXC PLAN 4194 ALL OF L 7913 KOOTENAY DIST	ELDEN PROPERTIES LTD JOY-AL INVESTMENTS LTD BOX 176 RADIUM HOT SPRINGS B C V0A1M0	ENTPR	13,000.00 GD	Jan 01	Dec 31		C/P CANCELLAT
	Stoddart Creek		WR2953	SS N					10H GOL - WINDERMERE	
1970/07/31	C063122	0296942	L 1 OF L 9248 KOOTENAY DIST EXC PLAN 15832	EACRETT CAROLINE E A PO BOX 504 INVERMERE BC V0A1K0	DOM	500.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	SS N					10H GOL - WINDERMERE	
1970/07/31	C063124	4000534	L 2 OF L 9248 KOOTENAY DIST PLAN 15832	UHRICH JOHN N & HELEN 8016 25TH ST SE CALGARY AB T2C1A9	DOM	500.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	SS N					10H GOL - WINDERMERE	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
Source			MR Map	POD RED POD Comments					Prec	
1970/08/10	C042239	0296976	L 1 OF L 9248 KOOTENAY DIST PLAN 4735	MACKEY CHARLES R & SHIRLEY E BOX 92 INVERMERE BC V0A1K0	DOM	1,000.00 GD	Oct 01	Mar 31		
Stoddart Creek			WR2953	SS N					10H GOL - WINDERMERE	
1972/04/04	C041812	0242313	L 1 OF L 288 KOOTENAY DIST PLAN 8007	BUKOVNIK LEO SENIOR GD ATHALMERE BC V0A1A0	DOM	500.00 GD	Oct 01	Mar 31		
Stoddart Creek			WR2953	ZZ N					10H GOL - WINDERMERE	
1972/04/04	C041814	0316507	L D OF L 288 KOOTENAY DIST PLAN 8210	DEHART DON & GLORIA PO BOX 267 RADIUM HOT SPRINGS BC V0A1M0	DOM	500.00 GD	Jan 01	Dec 31		A/A APPORTION
Stoddart Creek			WR2953	ZZ N					10H GOL - WINDERMERE	
1972/04/04	C041824	0305880	L A OF L 288 KOOTENAY DIST PLAN 8288	583273 ALBERTA LTD RR 1 WANHAM AB T0H3P0	DOM	500.00 GD	Oct 01	Mar 31		
Stoddart Creek			WR2953	YY N					10H GOL - WINDERMERE	
1973/05/25	C060879	0370423	L 1 OF L 9199 KOOTENAY DIST PLAN 8413	MACKEY CHARLES R & SHIRLEY E BOX 92 INVERMERE BC V0A1K0	ENTPR	4,000.00 GD	Jan 01	Dec 31		
Stoddart Creek			WR2953	SS N					10H GOL - WINDERMERE	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Statu
	Source		WR Map	POD RED POD Comments					Prec	
1973/05/25	C060882	0316956	L 1 PLAN 5987 & L 1 PLAN 4753 OF L 9248 KOOTENAY DIST	MACKEY CHARLES R & SHIRLEY E BOX 92 INVERMERE BC V0A1K0	ENTPR	8,000.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	SS N					10H GOL - WINDERMERE	
1973/08/20	C049133	0317637	L 2 OF L 5353 KOOTENAY DIST PLAN 2945	KARPS WILLIAM BOX 246 RADIUM BC V0A1M0	DOM	500.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	JJ N					10H GOL - WINDERMERE	
1978/02/22	C054108	0342724	7 AC OF L 2 OF L 288 & 5353 KOOTENAY DIST PLAN 12326	BUKOVNIK LEO SENIOR GD ATHALMERE BC V0A1A0	IRR	17.50 AF	Apr 01	Sep 30		
	Stoddart Creek		WR2953	XX N					10H GOL - WINDERMERE	
1979/04/25	C054418	0365482	L 1 OF L 5353 KOOTENAY DIST PLAN 12326	BOUX GEORGINA 59 KIRKHAM DR BRANDON MB R7A2N9	DOM	500.00 GD	Jan 01	Dec 31		T/A TRANSFER/
	Stoddart Creek		WR2953	GB N					10H GOL - WINDERMERE	
1981/12/03	C063125	0369671	L 3 OF L 9248 KOOTENAY DIST PLAN 15832	VOISIN J P D MARCEL 3150 12TH AVE SW CRANBROOK BC V1C4H3	DOM	1,000.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	SS N					10H GOL - WINDERMERE	

Priority YYYY/MM/DD	Licence Number	File Number	Appurtenancy	Licensee	PUC	Quantity/Units	Term Start	Term End	Licence Comments	Process Status
	Source		WR Map	POD RED POD Comments					Prec	
1987/04/23	C067807	4001230	L 2 OF DL 9248 KOOTENAY DIST PLAN 15832	UHRICH JOHN N & HELEN 8016 25TH ST SE CALGARY AB T2C1A9	DOM	500.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	SS N					10H GOL - WINDERMERE	
1987/05/15	C067814	4001239	L 3 OF DL 9248 KOOTENAY DIST PLAN 15832	VOISIN JOSEPH P D M 3150-12TH AVE S CRANBROOK BC V1C4H3	DOM	1,000.00 GD	Jan 01	Dec 31		
	Stoddart Creek		WR2953	SS N					10H GOL - WINDERMERE	
1993/04/26	Z106543	4002769	LB DL5353 KOOTENAY DIST PLAN18408	KREBS PETER & ROCHELLE A PO BOX 95 ATHALMERE BC V0A1A0	DOM	500.00 GD	Jan 01	Dec 31		APP APPLIC-CL
	Stoddart Creek		WR2953	JJ N					10H GOL - WINDERMERE	
1993/04/26	Z106544	4002770	LA DL5353 KOOTENAY DIST PLAN18408	KREBS MICHAEL T PO BOX 95 ATHALMERE BC V0A1A0	DOM	500.00 GD	Jan 01	Dec 31		APP APPLIC-CL
	Stoddart Creek		WR2953	JJ N					10H GOL - WINDERMERE	

---------- Total of 29 Licences Reported ----------

ATTACHMENT 5

SHORTS CREEK AT THE MOUTH - STATION NO. 08NM151

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	---	---	---	---	0.392	0.048	0.106	0.218	0.208	0.089	---	1969
1970	0.066	0.090	0.146	0.207	4.46	1.74	0.103	0.006	0.006	0.015	0.035	0.011	0.578	1970
1971	0.025	0.074	0.062	0.640	9.95	4.01	0.469	0.044	0.039	0.031	0.066	0.056	1.30	1971
1972	0.050	0.051	0.572	0.797	10.5	4.77	0.807	0.134	0.058	0.115	0.119	0.049	1.51	1972
1973	0.035	0.024	0.058	0.309	4.02	0.965	0.134	0.008	0.004	0.030	0.185	0.206	0.564	1973
1974	0.244	0.358	0.430	2.48	9.66	7.59	1.65	0.176	0.046	0.048	0.059	0.058	1.90	1974
1975	0.025	0.023	0.058	0.679	7.56	6.89	0.537	0.084	0.047	0.031	0.065	0.103	1.35	1975
1976	0.071	0.074	0.086	0.575	6.27	2.59	0.513	1.72	0.705	0.277	0.186	0.120	1.11	1976
1977	0.087	0.091	0.112	1.49	3.27	0.912	0.234	0.067	0.043	0.091	0.061	0.055	0.345	1977
1978	0.057	0.056	0.288	1.81	7.47	3.38	0.486	0.100	0.680	0.444	0.317	0.208	1.28	1978
1979	0.117	0.126	0.260	0.670	6.00	0.981	0.237	0.050	0.089	0.077	0.126	0.084	0.743	1979
1980	0.033	0.040	0.083	1.71	3.34	1.48	0.493	0.128	0.284	0.123	0.151	0.133	0.667	1980
1981	0.246	0.193	0.260	0.874	5.20	2.45	1.04	0.480	0.248	0.503	0.651	0.412	1.03	1981
1982	0.085	0.160	0.432	0.759	7.08	3.28	1.79	0.466	0.400	0.442	0.254	0.186	1.29	1982
MEAN	0.089	0.105	0.219	1.00	6.52	3.13	0.640	0.251	0.197	0.175	0.177	0.126	1.06	MEAN

LOCATION - LAT 50 07 55 N LONG 119 30 48 W DRAINAGE AREA, 185 km² REGULATED

SHORTS CREEK AT THE MOUTH - STATION NO. 08NM151

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	---	---	---	1969
1970	---	9.71 ON MAY 23	0.002 ON OCT 06	18 200	1970
1971	---	15.4 ON MAY 12	0.008B ON JAN 03	41 000	1971
1972	---	21.5 ON MAY 10	0.018 ON SEP 05	47 900	1972
1973	---	8.95 ON MAY 17	0 ON AUG 29 *	15 900	1973
1974	---	20.4 ON MAY 26	0.034 ON SEP 03	60 100	1974
1975	---	21.9 ON JUN 02 *	0.014B ON JAN 10	42 400	1975
1976	---	9.06 ON MAY 11	0.054 ON MAR 14	34 900	1976
1977	6.97 AT 06:05 PST ON MAY 03	6.34 ON MAY 03	0.031 ON SEP 17	17 200	1977
1978	15.4 AT 05:00 PST ON MAY 21 *	14.0 ON MAY 21	0.037B ON JAN 31	40 400	1978
1979	9.91 AT 04:20 PST ON MAY 08	9.17 ON MAY 05	0.026 ON AUG 11	23 400	1979
1980	8.82 AT 10:34 PST ON MAY 06	7.85 ON MAY 06	0.013B ON JAN 19	21 100	1980
1981	9.42 AT 09:00 PST ON MAY 21	8.94 ON MAY 21	0.030B ON FEB 10	32 600	1981
1982	---	14.3 A ON MAY 25	0.066B ON FEB 13	40 600	1982
				33 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHUSWAP CREEK NEAR ATHALMER - STATION NO. 08NA019

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1926	---	---	---	---	0.498	0.439	0.407	0.388	0.363	---	---	---	---	1926
1927	---	---	---	---	1.14	1.64	0.834	0.584	0.586	---	---	---	---	1927
MEAN	---	---	---	---	0.819	1.04	0.621	0.486	0.475	---	---	---	---	MEAN

LOCATION - LAT 50 32 06 N LONG 119 57 48 W DRAINAGE AREA, 41.2 km² NATURAL FLOW

SHUSWAP CREEK NEAR ATHALMER - STATION NO. 08NA019

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1926	---	---	---	---	1926
1927	---	2.97 ON JUN 10 *	---	---	1927
				---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STODDART CREEK AT OUTLET OF CHARLIE LAKE - STATION NO. 07FC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	---	---	---	0.278	0.173	0.088	0.021	0.003	0	0	---	196
1969	0	0	0	0.035	0.018	0.012	0.010	0.002	0.012	0.028	0.021	0.054	0.016	196
1970	0.060	0.063	0.094	2.00	1.90	1.23	0.036	0.010	0.004	0.002	0	0	0.449	197
1971	0	0	0	0.504	1.39	1.54	2.29	0.490	0.128	0.053	0.037	0.021	0.518	197
1972	0.004	0	0.020	1.37	4.13	1.55	1.60	1.28	0.603	0.482	0.272	0.047	1.19	197
1973	0.064	0.103	0.174	1.73	3.97	1.23	0.441	---	---	---	0.064	0.089	---	197
1974	0.105	0.125	0.123	2.26	6.16	1.54	0.526	0.398	0.179	0.090	0.126	0.102	0.968	197
1975	0.081	0.059	0.041	0.393	1.66	1.56	0.419	0.005	0	0	0	0	0.352	197
1976	0	0	0	0	0	0.363	1.70	2.38	1.37	0.130	0	0	0.498	197
1977	0	0	0	1.00	1.56	5.93	1.38	0.139	0	0	0	0	0.831	197
1988	---	---	---	0.188	2.22	0.960	0.190	0.159	0.089	0.001	0	0.001	---	198
1989	0.002	0	0.002	0.350	0.402	0.097	0.105	0.538	0.316	0.408	0.004	0.006	0.187	198
1990	0.014	0.005	0.025	1.23	2.19	2.87	1.21	0.177	0.039	0.007	0.005	0.006	0.649	199
MEAN	0.030	0.032	0.044	1.09	2.38	1.42	0.775	0.472	0.230	0.100	0.041	0.025	0.566	MEA

LOCATION - LAT 56 16 28 N DRAINAGE AREA, 298 km²
LONG 120 56 51 W REGULATED SINCE 1968

STODDART CREEK AT OUTLET OF CHARLIE LAKE - STATION NO. 07FC004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1968	---	---	0 ON NOV 05 *	---	196
1969	---	0.062 ON APR 11	0 B ON JAN 01	506	196
1970	---	5.07 ON APR 22	0 ON NOV 05	14 200	197
1971	4.62 AT 21:20 PST ON JUL 13	4.47 ON JUL 13	0 B ON JAN 01	16 300	197
1972	10.2 AT 07:35 PST ON MAY 06 *	10.1 ON MAY 06 *	0 ON JAN 26	37 600	197
1973	---	7.56 A ON APR 26	---	---	197
1974	---	8.78 E ON MAY 06	0.062 ON JAN 02	30 500	197
1975	3.43 AT 18:00 PST ON MAY 29	3.23 ON MAY 27	0 ON AUG 08	11 100	197
1976	3.74 AT 16:44 PST ON AUG 20	3.65 ON AUG 20	0 ON JAN 01	15 800	197
1977	10.2 AT 12:00 PST ON JUN 11	10.1 ON JUN 11	0 ON JAN 01	26 200	197
1988	4.47 AT 03:34 PST ON MAY 17	4.45 ON MAY 17	0 ON OCT 06	---	198
1989	1.87 AT 15:33 PST ON AUG 25	1.78 ON AUG 25	0 B ON JAN 01	5 910	198
1990	4.57 AT 22:25 PST ON JUN 14	4.08 ON JUN 14	0 B ON JAN 28	20 500	199
				17 900	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX) E - ESTIMATED

STODDART CREEK NEAR ATHALMER - STATION NO. 08NA020

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1938	---	---	---	---	---	---	---	0.076	0.065	---	---	---	---	1938
1939	---	---	---	---	0.116	0.122	0.125	0.076	0.067	---	---	---	---	1939
1960	---	---	---	---	0.223	0.284	0.181	0.119	0.097	---	---	---	---	1960
1961	---	---	---	---	---	---	0.149	0.113	0.094	---	---	---	---	1961
1971	---	---	---	0.074	0.252	0.355	0.187	0.123	0.090	---	---	---	---	1971
1972	---	---	---	---	0.329	0.513	0.307	0.179	0.135	0.129	0.120	0.104	---	1972
1973	0.088	0.083	0.065	0.070	0.162	0.361	0.272	0.129	0.109	0.102	0.092	0.076	0.132	1973
1974	0.053	0.048	0.056	0.113	0.173	0.398	0.231	0.161	0.121	0.096	0.082	0.078	0.134	1974
1975	0.074	0.072	0.062	0.070	0.110	0.188	0.120	0.097	0.078	0.066	0.060	0.060	0.088	1975
1976	0.052	0.046	0.044	0.084	0.370	0.315	0.250	0.149	0.117	0.093	0.077	0.069	0.141	1976
1977	0.061	0.058	0.056	0.061	0.100	0.120	0.075	0.066	0.061	0.058	0.054	0.051	0.068	1977
1978	0.045	0.045	0.047	0.066	0.225	0.377	0.204	0.123	0.105	0.091	0.085	0.083	0.125	1978
1979	0.076	0.072	0.072	0.074	0.154	0.189	0.116	0.092	0.081	0.072	0.066	0.064	0.094	1979
1980	0.059	0.054	0.055	0.084	0.238	0.434	0.234	0.158	0.126	0.103	0.075	0.070	0.141	1980
1981	0.070	0.060	0.060	0.074	0.227	0.219	0.209	0.205	0.140	0.115	0.098	0.097	0.132	1981
1982	0.082	0.070	0.064	0.072	0.238	0.399	0.244	0.161	0.127	0.110	0.094	0.078	0.145	1982
MEAN	0.066	0.061	0.058	0.077	0.211	0.308	0.190	0.127	0.101	0.094	0.082	0.074	0.120	MEAN

LOCATION - LAT 50 34 06 N DRAINAGE AREA, 21.2 km²
LONG 115 59 29 W NATURAL FLOW

STODDART CREEK NEAR ATHALMER - STATION NO. 08NA020

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1938	---	---	---	---	1938
1939	---	0.176 ON JUL 02	---	---	1939
1960	---	0.334 ON JUN 15	---	---	
1961	---	---	---	---	
1971	---	0.447 ON JUN 20	---	---	1971
1972	---	0.28 ON MAY 10 *	---	---	1972
1973	---	0.425 ON JUN 01	0.057 ON MAR 19	4 180	1973
1974	---	0.556 ON JUN 15	0.045E ON JAN 18	4 230	1974
1975	---	0.229 ON JUN 09	0.057 ON MAY 05	2 780	1975
1976	0.648 AT 22:45 MST ON MAY 12	0.617 ON MAY 13	0.042 ON MAR 19 *	4 450	1976
1977	0.153 AT 14:02 MST ON JUN 12	0.150 ON JUN 12	0.048 ON DEC 25	2 160	1977
1978	0.733 AT 06:02 MST ON JUN 07 *	0.714 ON JUN 07	0.042 ON JAN 08	3 940	1978
1979	0.374 AT 07:05 MST ON MAY 29	0.354 ON MAY 29	0.060 ON DEC 16	2 960	1979
1980	0.674 AT 07:30 MST ON JUN 08	0.671 ON JUN 08	0.051 ON JAN 30	4 460	1980
1981	0.504 AT 02:52 MST ON MAY 28	0.463 ON MAY 27	0.057 ON FEB 17	4 180	1981
1982	0.646 AT 13:50 MST ON JUN 16	0.630 ON JUN 16	0.062 ON MAR 12	4 580	1982
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 790	MEAN

STONEY CREEK NEAR BURNABY - STATION NO. 08MH117

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	---	---	---	---	---	0.026	0.017	---	---	---	---	1965
MEAN	---	---	---	---	---	---	---	0.026	0.017	---	---	---	---	MEAN

LOCATION - LAT 49 15 00 N LONG 122 54 27 W NATURAL FLOW

STONEY CREEK NEAR BURNABY - STATION NO. 08MH117

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	---	---	---	1965
				---	MEAN

STONY CREEK AT STONY CREEK - STATION NO. 08JC013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	---	0.540	1.07	1.19	0.633	0.133	0.045	---	---	---	---	1981
1983	---	---	---	---	0.963	0.157	1.25	1.28	0.235	0.047	0.048	0.094	---	1983
1984	0.244	0.312	0.306	0.835	2.06	2.27	0.940	---	---	---	---	---	---	1984
MEAN	0.244	0.312	0.306	0.688	1.36	1.21	0.941	0.707	0.140	0.047	0.048	0.094	---	MEAN

LOCATION - LAT 53 56 28 N LONG 124 06 25 W DRAINAGE AREA, 342 km^2 NATURAL FLOW

STONY CREEK AT STONY CREEK - STATION NO. 08JC013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	1.27 ON JUN 04	---	---	1981
1983	2.05 AT 08:09 PST ON JUL 26	1.95 ON JUL 26	---	---	1983
1984	2.68 AT 15:25 PST ON JUN 11 *	2.66 ON JUN 11 *	---	---	1984
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

STONY CREEK BELOW ZACHICK LAKE - STATION NO. 08JC010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	---	---	---	3.79	2.01	1.01	0.580	---	---	---	---	1977
1978	---	---	---	0.647	2.08	1.52	0.820	0.059	0.014	---	---	---	---	1978
1979	---	---	---	1.21	5.54	4.20	1.67	0.591	0.165	---	---	---	---	1979
MEAN	---	---	---	1.03	3.81	3.30	1.57	0.553	0.253	---	---	---	---	MEAN

LOCATION - LAT 53 59 35 N LONG 124 07 16 W DRAINAGE AREA, 451 km^2 NATURAL FLOW

ATTACHMENT 6

15/12/94

Ministry of Environment - Water Management Branch - Groundwater Section
Groundwater Database System
Data Summary - with Legal Descriptions and Old Coordinates

BCGS Map Area	Well No.	Lot No.	Plan No.	Blk No.	TP	SC	RG	D.L.	Z	X	Y	Old Well No.	L.D.	Owner's Name	Site Address	Date Constructed (dmy)	Well Depth (ft.)	Well Diam. (in.)	Drill Contr No.	Const. Method	Well Yield	Yld. Unt.	Depth to Water (ft.)	Depth to Bedrk (ft.)	Aquif Litho	Screen Interval (ft.)	G.W. Rpt	Chem Lab	Chem Fld	Chem Site No.
082J.051.1.1.3	001								10	26	12	001	27	CROSSROADS ESSO SERV		01-01-51	190.0	0.0	198	DRI			156	UNK	UNC					
082J.051.1.1.3	002								10	26	12	002	27	(LIONS)FALL FAIR GRD		15-06-57	190.0	7.0	021	DRI			159	UNK	UNC					
082J.051.1.1.3	003								10	26	12	003	27	M DUBOIS	CROSSROADS	25-05-69	204.0	4.5	130	DRI	20.0	GPM	154	UNK	UNC				Y	
082J.051.1.1.3	004								10	26	12	005	27	SHUSWAP INDIAN BAND	AT X ROADS - BLACK F	14-11-85	177.0	0.0	009	DRI	7.0	GPM	163	UNK	UNC					
082J.051.1.1.3	005								10	26	12	006	27	BLACK FOREST RESTAUR	INVERMERE JUNCTION	17-02-85	210.0	0.0	104	DRI	12.0	GPM	100	UNK	UNC					
082K.060.2.4.2	001								10	26	16	001	27	MARCELLINE STEVEN		01-01-65	0.0	0.0	163	DRI			UNK	UNK	UNC					
082K.060.2.4.2	002								10	26	16	002	27	MIKE PAUL		01-01-64	175.0	0.0	163	DRI			UNK	UNK	UNC					
082K.060.2.4.4	001	18	8394					5343	10	26	24	001	27	ROBERT GORDON	JUNIPER HTS SUBDV	25-06-84	183.0	7.0	009	DRI	6.0	GPM	169	UNK	UNC					
082K.060.2.4.4	002								10	26	23	001	27	ALPHONSE CAPLO		01-01-65	0.0	0.0	163	DRI			UNK	UNK	UNC					
082K.060.2.4.4	003	17	8394					5343	10	26	24	002	27	GLEN BALLARD	JUNIPER HTS	31-03-83	190.0	6.0	009	DRI	7.0	GPM	176	UNK	UNC					
082K.060.2.4.4	004								10	26	23	002	27	CHARLIE EUGENE		01-02-67	110.0	6.0	163	DRI	20.0	IGM	80	UNK	UNC					
082K.060.2.4.4	005	26	8394					5343	10	26	24	003	27	M MCKENZIE	JUNIPER HEIGHTS	09-10-84	192.0	6.0	009	DRI	5.0	USGM	172	UNK	UNC					
082K.060.2.4.4	006								10	26	23	003	27	SUSAN THOMAS		01-09-66	69.0	6.0	163	DRI	35.0	IGM	57	UNK	UNC					
082K.060.2.4.4	007	2	8394					5343	10	26	23	004	27	MAX HELMER	JUNIPER HEIGHTS	04-04-85	145.0	6.0	009	DRI	12.0	GPM	118	UNK	UNC					
082K.060.2.4.4	008	23	8394					5343	10	26	24	004	27	ALAN SIMPLE	JUNIPER HTS	01-08-79	200.0	6.0	009	DRI	3.0	GPM	173	UNK	UNC	186-190				
082K.060.2.4.4	009	14	8394					5343	10	26	24	005	27	JIM REAMSBOTTOM		24-10-84	235.0	0.0	009				UNK	UNK	UNC					
082K.060.2.4.4	010	9	8394					5343	10	26	23	005	27	JOSEPH MARTIN CAMENZ		28-04-81	215.0	0.0	012	DRI	1.0	USGM	UNK	UNK	UNC					
082K.060.2.4.4	011	9	8394					5343	10	26	23	006	27	JOE CAMENZIND	JUNIPER HEIGHTS	01-07-85	212.0	7.0	009	DRI	5.0	GPM	200	UNK	UNC	204-212				
082K.060.2.4.4	012	25	1391						10	26	23	007	27	RALPH BELL	SHUSWAP CREEK		30.0	6.0	009	DRI	6.0	USGM	16	UNK	UNC					
082K.060.2.4.4	013								10	26	23	008	27	DEPT OF NORTHERN DEV	SHUSWAP INDIAN RESER	30-03-76	118.0	6.0	UNK	DRI	70.0	USGM	47	UNK	UNC	94-99		Y		14015
082K.060.4.2.1	001								10	26	27	001	27	XAVIER EUGENE	SHUSWAP INDIAN RESER	01-12-66	72.0	6.0	163	DRI	10.0	IGM	59	UNK	UNC					
082K.060.4.2.2	001	1							10	26	26	001	27	VINCE OLSEN	INDIAN RESERVE	03-08-81	160.0	6.0	009	DRI	7.0	GPM	138	UNK	UNC	156-160				
082K.060.4.2.3	001	228							10	26	27	002	27	C A MACKLY		01-09-71	197.0	4.0	171				UNK	UNK	UNC					
082K.060.4.2.3	002	2	8210					288	10	26	26	002	27	DON R DEHART	DRY GULCH	10-03-81	146.5	0.0	012	DRI	10.0	USGM	136	UNK	UNC					
082K.060.4.2.4	001		8210					288	10	26	26	003	27	DON DEHART	NEAR INVERMERE MOHAM	25-04-80	108.0	0.0	012	DRI			UNK	UNK	UNC					

DISCAIMER: The Province disclaims all responsibility for the accuracy of this information. This information should not be used as a basis for making financial or any other commitments.

82K.060.2.3.4

21

WATER WELL RECORD

DEPT. OF ENVIRONMENT, WATER RESOURCES SERVICE, WATER INVESTIGATIONS BRANCH VICTORIA, BRITISH COLUMBIA

Z [ ] [ ] WELL NO. [ ] [ ] [ ]

[ ] [ ] [ ] [ ] [ ] [ ] [ ] E

[ ] [ ] [ ] [ ] [ ] [ ] [ ] N

Z 18 X 24 Y 11 NO. 35

NAT. TOPO. SHEET NO. 16

LEGAL DESCRIPTION: LOT 19-2 SEC. ____ TP. ____ R. ____ D.L. ____ LAND DISTRICT KOOTENAY PLAN BPS

DESCRIPTIVE LOCATION KINBASKET MALL, Shuswap Indian Reserve, INVERMERE LICENCE NO. ____ DATE ____

OWNER'S NAME DIVERSIFIED HOLDINGS LTD. ADDRESS VICTORIA BC

DRILLER'S NAME ARROW DRILLING LTD ADDRESS CRANBROOK DATE COMPLETED 81/06/23

DEPTH 210' ELEVATION OF ____ (009) ☐ ESTIMATED ☐ SURVEYED CASING DIAM. ____ LENGTH ____

METHOD OF CONSTRUCTION CABLE TOOL 1 CASING DIAM 6.7 LENGTH 0 - 197'

SCREEN LOCATION 210'-197' SCREEN ☐ SIZE # 40 LENGTH 12 TYPE STEEL 1

SANITARY SEAL YES ☐ NO ☐ SCREEN ☐ SIZE ____ LENGTH ____ TYPE ____

PERFORATED CASING ☐ LENGTH ____ PERFORATIONS FROM ____ TO ____

GRAVEL PACK ☐ LENGTH ____ DIAM. ____ SIZE GRAVEL, ETC. ____

DISTANCE TO WATER 183' ☐ ESTIMATED WATER LEVEL

FROM GROUND LEVEL 1 ☐ MEASURED ELEVATION ____ ARTESIAN PRESSURE ____

DATE OF WATER LEVEL MEASUREMENT ____ WATER USE COMMERCIAL 4

PRODUCTION TEST SUMMARY

DATE ____

TEST BY ____

BAIL TEST ☐ PUMP TEST ☐ DURATION OF TEST ____

RATE ____ DRAWDOWN ____

WATER LEVEL AT COMPLETION OF TEST ____

AVAILABLE DRAWDOWN ____ SPECIFIC CAPACITY ____

PERMEABILITY ____ STORAGE COEFF. ____

TRANSMISSIVITY ____

RECOMMENDED PUMPING RATE ____

RECOMMENDED PUMP SETTING 198'

CHEMISTRY

TEST BY ____ DATE ____

TOTAL DISSOLVED SOLIDS ____ mg/l TEMPERATURE ____ °C pH ____ SILICA (SiO_2) ____ mg/l

CONDUCTANCE ____ μmhos/cm AT 25°C TOTAL IRON (Fe) ____ mg/l TOTAL HARDNESS ($CaCO_3$) ____ mg/l

TOTAL ALKALINITY ($CaCO_3$) ____ mg/l PHEN. ALKALINITY ($Ca\ CO_3$) ____ mg/l MANGANESE (Mn) ____ mg/l

COLOUR ____ ODOUR ____ TURBIDITY ____

ANIONS	mg/l	epm	CATIONS	mg/l	epm
CARBONATE (CO_3)			CALCIUM (Ca)		
BICARBONATE (HCO_3)			MAGNESIUM (Mg)		
SULPHATE (SO_4)			SODIUM (Na)		
CHLORIDE (Cl)			POTASSIUM (K)		
$NO_2 + NO_3$ (NITROGEN)			IRON (DISSOLVED)		
• TKN. (NITROGEN)					
PHOSPHORUS (P)					

• TKN • TOTAL KJELDAHL NITROGEN CHEMISTRY SITE NO. ____

NO_2 • NITRITE NO_3 • NITRATE

CHEMISTRY FIELD TESTS

TEST BY ____ DATE ____ EQUIPMENT USED ____

CONTENTS OF FOLDER

☑ DRILL LOG ☐ PUMP TEST DATA ☐ CHEMICAL ANALYSIS

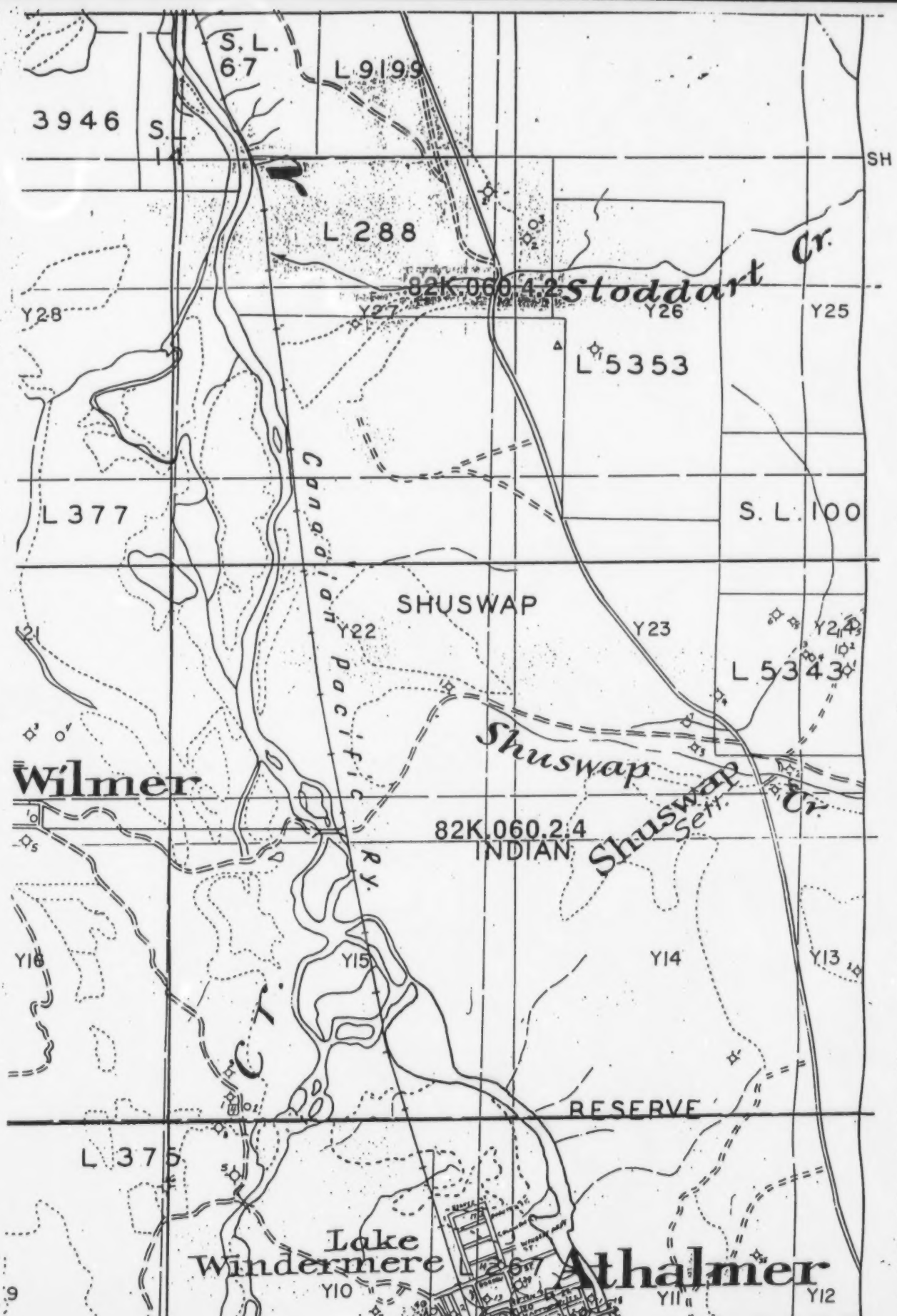
☐ SIEVE ANALYSIS ☐ GEOPHYSICAL LOGS ☐ REPORT

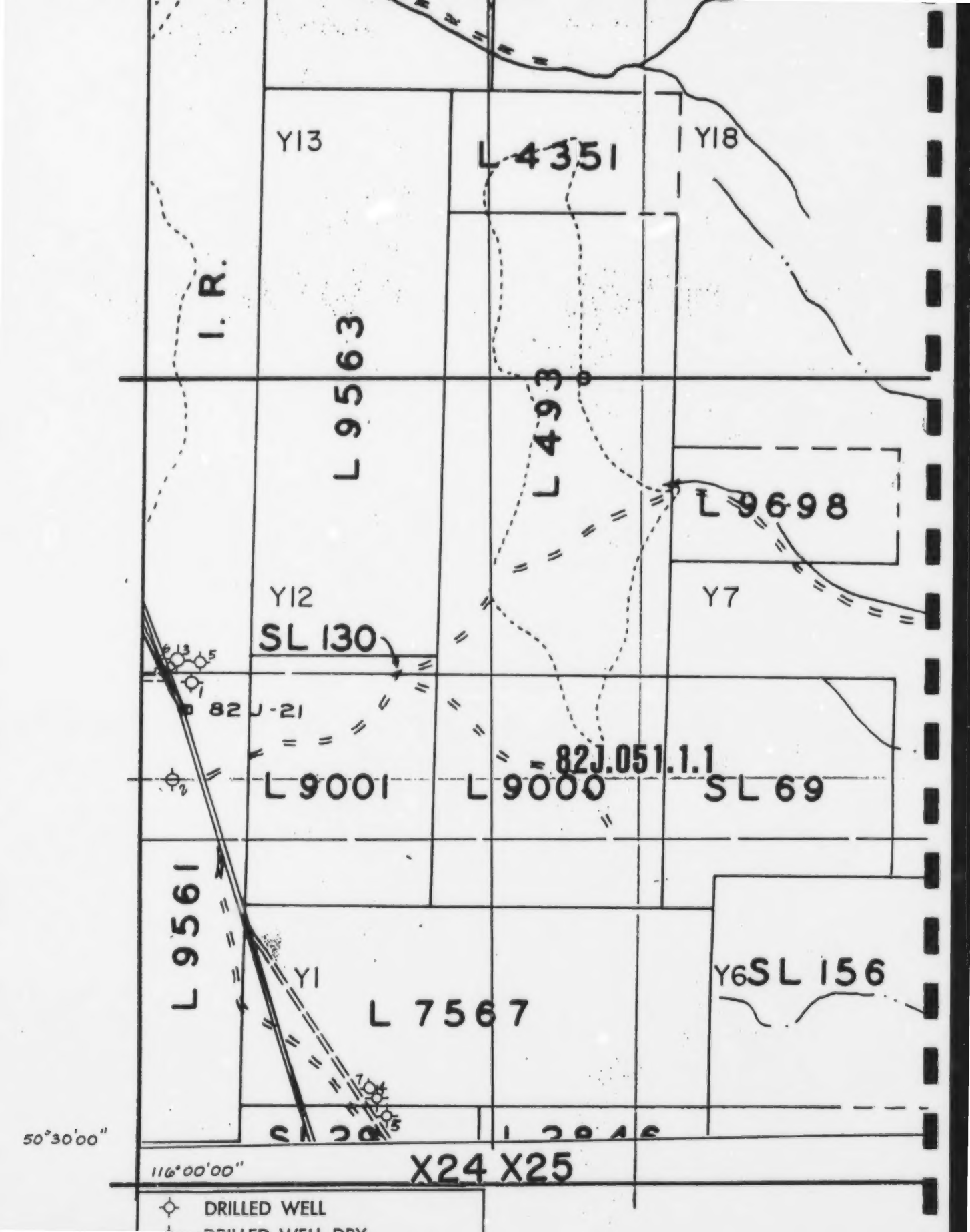
OTHER ____

SOURCES OF INFORMATION DRILLER 1

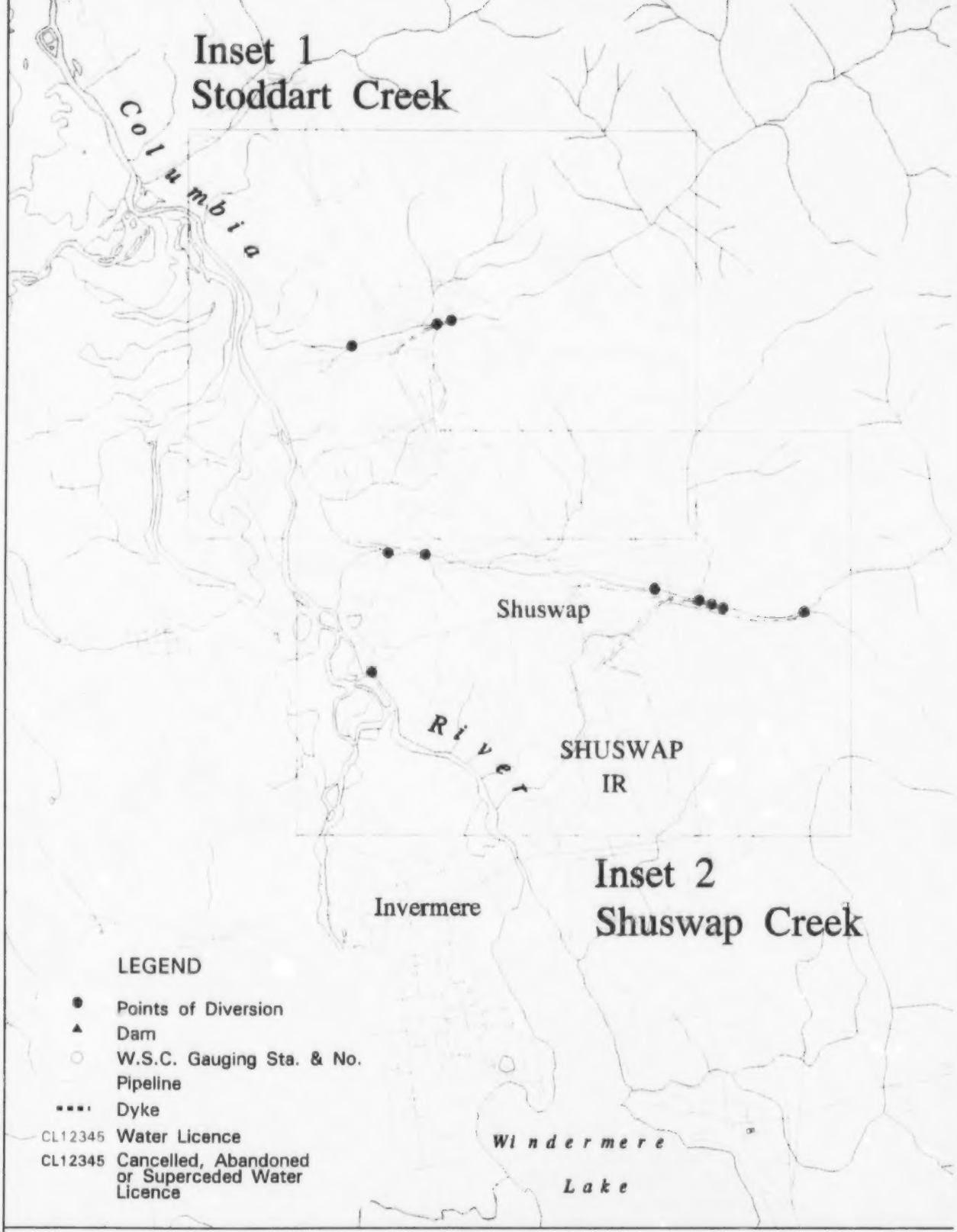
LITHOLOGY

FROM	TO	DESCRIPTION
0'	8'	SILTY SAND
8'	140'	HARDPAN
140'	184'	CLAY GRAVEL SAND
184'	196'	LAYERS OF GRAVEL SAND AND CLAY - GRAVEL - WATER BEARING MATERIAL
196'	200'	GRAVEL and SAND COARSE
200'	210'	GRAVEL and SAND fine - water
NOV	1985	LOCATED, TALK TO DRILLER WORKING 1 K.M. FROM THIS WELL SEE PLAN BACK OF CARD WELL UNDEVELOPED.


S. L. 67
L 9199
3946
S.
SH
L 288
82K.060.4.2
Stoddart Cr.
Y28
Y27
Y26
Y25
L 5353
L 377
S. L. 100
SHUSWAP
Y22
Y23
Y24
L 5343
Canadian Pacific Ry.
Shuswap R.
Wilmer
82K.060.2.4
INDIAN
Shuswap Sett.
Shuswap Cr.
Y18
Y15
Y14
Y13
RESERVE
L 375
Lake Windermere
L 2667
Athalmer
Y10
Y11
Y12
9


Y13
L 4351
Y18
I. R.
L 9563
L 493
L 9698
Y12
Y7
SL 130
82 J-21
82J.051.1.1
L 9001
L 9000
SL 69
L 9561
Y1
L 7567
Y6
SL 156
50°30'00"
116°00'00"
X24 X25
DRILLED WELL

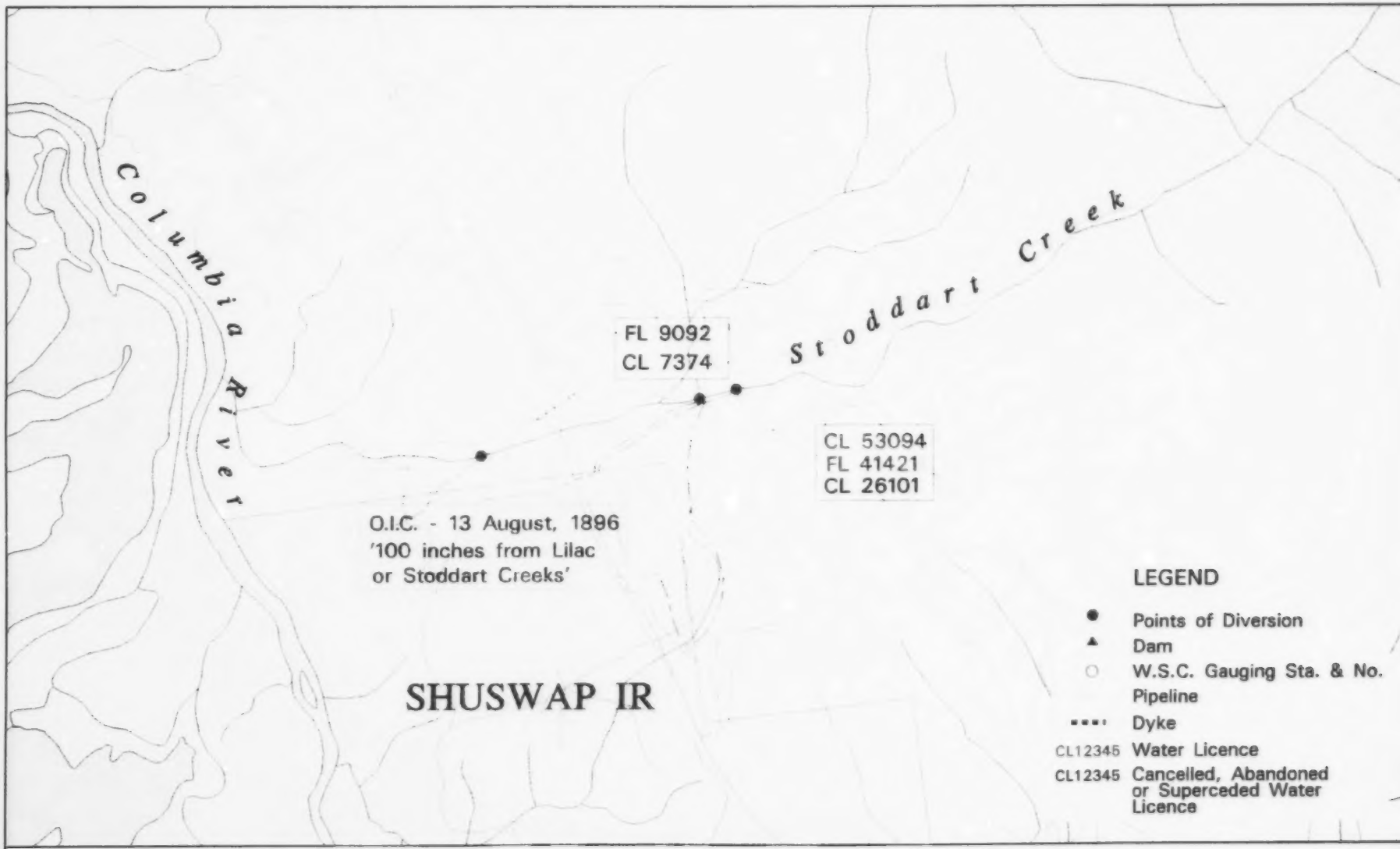
ATTACHMENT 7



Shuswap

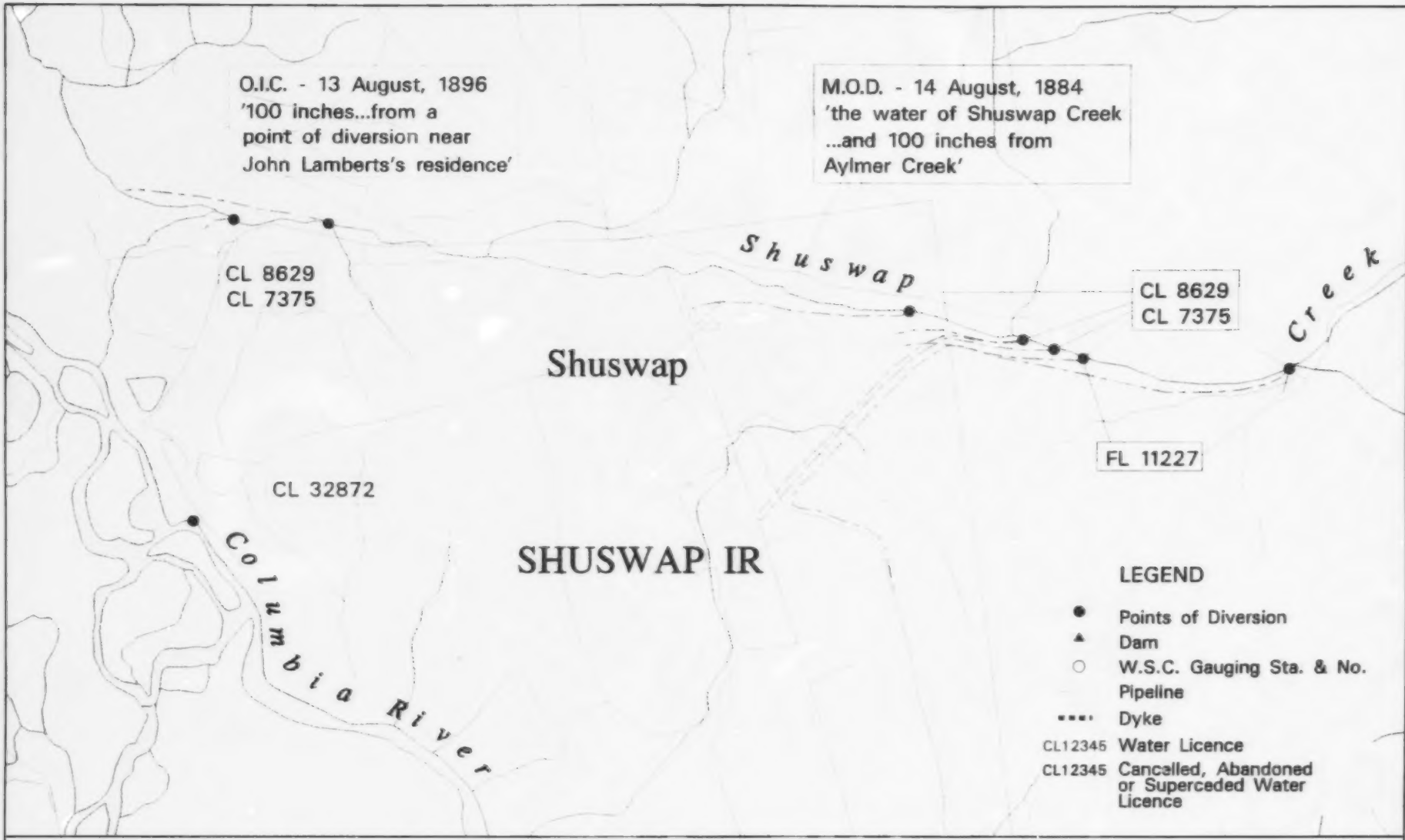
Scale 1:50,000

Ministry of Environment, Lands & Parks Date: October 22, 1997 Environment & Lands Division



Stoddart Creek

Scale 1:20,000



Shuswap Creek

Scale 1:20,000

Ministry of Environment, Lands & Parks

Date: October 22, 1997

Environment & Lands Division